

The

Medical Scientist



The Medical Scientist, vol. 2, 2013, no. 1, pp. 1-30.

**An official publication of the Australian Institute of Medical Scientists
New South Wales/Australian Capital Territory Branch.**

Brought to you from 'Your Editorial Team'.

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On Ki Chan Student Member AIMS
Aimee Carberry Student Member AIMS

Welcome Edition

Issue Highlights

- New Committee**
- Welcome from Chair
and Deputy Chair**
- Clinical Review**
- ACT Conference
Review**
- What's On**

The Medical Scientist

Contents

NSW/ACT Branch Committee	3
From the Editor	4
NSW/ACT AIMS Branch Chair	5
AIMS National Scientific Meeting Melbourne 2013	6
NSW/ACT AIMS Branch Deputy Chair	7 - 8
Second Clinical Review	9 - 11
Third Clinical Review	12
Advancing Medical Science Together (ACT) Review	14 - 17
Education	18 - 19
Haematology Morphology Workshop	20
Dates for your Diary	21
News in Short	22
APACE and Fellowship	23 -24
Links of the Month	25
What's On	26
Have your Say	27
Contribute	28



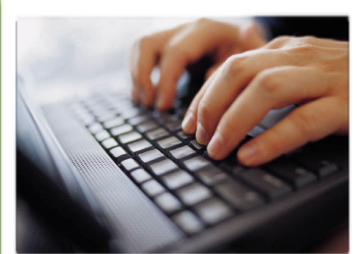
Page 4 - One eye on the past both eyes on the future.



Page 5 - From the Chair and Deputy Chair.



Page 13 - Review from the ACT Conference.



Page 24 - Links of the Month

The Medical Scientist

Your Branch Committee

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The Medical Scientist

From the editor

One eye on the past, both eyes on the future

I hope you all managed to get some rest over the festive period particularly as it is a very busy time of the year for many of you. May I also take this opportunity in wishing you all a very happy new year and a prosperous 2013.



It is with great pleasure that I write to you all as the Treasurer of the NSW/ACT branch of the Australian Institute of Medical Scientists and Editor of the branch Newsletter. The start of 2012 promised and delivered so much it was a very busy year for all of us, the Advancing Medical Science Together conference in Canberra was held, numerous Haematology Discussion Group meetings and the branch launch of the new format newsletter called "The Medical Scientist" to keep our members informed and up-to-date with everything? 2012 also saw the branch launch the successful Clinical Review meetings. This was an excellent chance to learn something new or even meet with fellow peers, and I found it a rich and rewarding experience to meet fellow professionals and members and indeed the NSW/ACT Branch Committee and I look forward to meeting as many of our members as possible in 2013.



1914 - 2014
AIMS Centenary

This year promises much excitement and branch activities to look forward to with further Haematology Discussion Group and Clinical Review meetings, future publications of "The Medical Scientist" and the Australian Institute of Medical Scientists centenary year in 2014.

With this in mind the Committee and I are very much keeping one eye on the rich history and traditions of the Institute but very much looking forward to the future and 2013 with both eyes.

warmest regards Anup (Editor)

The Medical Scientist

FROM THE CHAIR

A welcome note from the NSW/ACT Branch Chair!

It was with some trepidation that I accepted the nomination for chair of the NSW Branch of AIMS. Being in the latter stage of my career, I did not expect to be able to contribute to AIMS in this formal capacity. I have always been a supporter of AIMS and its aims. On my office wall in Royal Prince Alfred Hospital is a certificate which says I was admitted as an Associate on 17 January 1973.



**Christopher
Coad**

christopher.coad@sswahs.nsw.gov.au

Having met with the new committee in November, I can see a wealth of talent, experience and enthusiasm and I look forward to working with them. I would ask scientists to support AIMS, encourage membership and I especially encourage you, if you have any concerns or constructive criticism, to address these to any member of the committee or myself and we will do our best to provide answers. On behalf of the committee, I wish you all a very happy and a peaceful New Year.

Chris Coad

Chair AIMS NSW/ACT Branch

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AIMS NSM 2013

2-4 September



“Tackling Science, Kicking Goals”

Registration and more information coming soon!!



Grand Hyatt
123 Collins Street
MELBOURNE, VICTORIA

The

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FROM THE DEPUTY CHAIR

A welcome note from the NSW/ACT Branch Deputy Chair!

Welcome to the second edition of “The Medical Scientist”. As you can see, the NSW/ACT Branch of AIMS has some new members. I would like to welcome our new Chair, Chris Coad, Principle Scientist in Haematology at the Royal Prince Alfred Hospital in Sydney. Chris brings a wealth of experience to the NSW/ACT Branch. We have two new committee members, namely Teresa Marzulli from the New Children’s Hospital, Westmead and Dorothy Stern from the Prince of Wales Hospital, Sydney. I would like to thank the two outgoing committee members Sandy Pitchfork and Dennis Loughhead as well as Dennis Mok outgoing Branch Chair for their contribution to the Branch.

Gillian**Rozenberg**gillian_rozenberg@yahoo.com

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The NSW/ACT AIMS committee is comprised of a cohesive group of scientists totally committed to AIMS. A major objective of the Branch is to bring education to the members of NSW and the ACT.



The Conference “Advancing Medical Science Together” held at the Crowne Plaza Hotel in Canberra on Saturday 20th and Sunday 21st October 2012 was our first attempt to fulfil this objective. The Conference was a great success. The presenters were Medical Scientists and Academics from both the Public and Private sector in NSW and the ACT, keen to share their knowledge in their particular field, providing a rewarding experience for the delegates.

A new innovation of the Branch is the instigation of the ‘Clinical Review’. The topics chosen thus far attract multi-disciplinary scientists from Sydney and Regional Laboratories; they have proved to be a great success with over one hundred scientists attending the inaugural Clinical Review! I would like to encourage all of you to share your experiences within your laboratory. A short case study is always of interest to all of us; after all one never stops learning! So please feel free to email any of the Committee members with an interesting case you may have come across.

Best wishes for 2013.

Gillian Rozenberg

Deputy Chair AIMS NSW/ACT Branch

The

Medical Scientist

AIMS NSW/ACT BRANCH CLINICAL REVIEW

**The highly regarded second Clinical Review
was held in September**

After the success of the first clinical review of 2012, where we had over 100 attendees, the second clinical review for the year was held in September with the topic being “Overview of Liver Transplantation”.



Our sponsors for the night were Siemens and the event was held at their offices in Macquarie Park. Whether it was due to the traffic jams across Sydney that afternoon the turnout was slightly less than the first review but we still had over 60 people attend.

Sarah

Just

sarah.just@sesiahs.health.nsw.gov.au

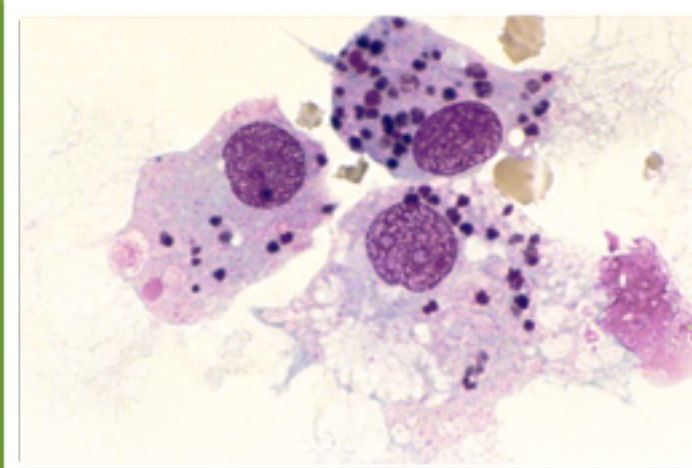
The

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The presenters for the night were all from the Royal Prince Alfred Hospital (RPA) where all of the adult liver transplants for NSW are performed. The first speaker was **Professor Simone Strasser**, Senior Staff Specialist from the AW Morrow Gastroenterology and Liver Centre. She gave a great overview of liver transplantation where we are now compared to the early days of transplantation.

The second speaker was **Professor David Sullivan**, Senior Staff Specialist from the Department of Biochemistry. He gave a review on the current available liver function tests used in assessing and monitoring patients for liver transplant and what the results mean.

The final speaker was **Syd Yuen**, Senior Medical Scientist from the Haematology Department. He presented a case study of acute liver failure followed by liver transplant. This patient underwent an urgent liver transplant with laboratory results presented both pre and post transplant. The outcome for this patient was life changing, having been at work one day, feeling unwell and then undergoing a transplant within days.



Due to the great attendances at the clinical reviews for 2012 we have decided to continue with this format of presentation in 2013. The first one for the year is "Complications of Pregnancy – a haematology, biochemistry and

The Medical Scientist

transfusion perspective” and will be held in conjunction with the AACB on Tuesday 19 February at Beckman Coulter’s new premises at Lane Cove. See the AIMS website for further details. Please remember to RSVP to the event for catering purposes, with the BBQ starting at 6pm followed by the presentations at 7pm.

Sarah Just

Secretary AIMS NSW/ACT Branch



**FOR DETAILS ON THE FORTHCOMING
THIRD CLINICAL REVIEW AND
RSVP INFORMATION, PLEASE SEE
PAGE 12.**

The Medical Scientist

**AIMS/AACB
NSW/ACT Branches**

Combined Clinical Review and BBQ

'Complications in Pregnancy'

PRESENTERS:

Peter Ward BSc MSc MAACB FAACB
Managing Scientist | PaLMS Chemical Pathology
TOPIC: General Biochemistry of Pre-eclampsia

Gillian Rozenberg FAIMS, FFSc(RCPA)
Senior Medical Scientist in Haematology SEALS Randwick
TOPIC: Help with HELLP

Dorothy Stern FAIMS
Senior Medical Scientist in Blood Transfusion SEALS Randwick
TOPIC: Blood Banking in the Pre and Peri-natal Setting.

When:

Tuesday 19 February 2013
6:00pm start for the BBQ
7:00pm start for the clinical review

Venue:

Beckman Coulter
23-27 Chaplin Drive,
Lane Cove NSW 2066



Please RSVP by
Friday 8th February 2013

John Sneddon
jsneddon@beckman.com

Please enter subject heading as: AIMS/AACB BBQ

For more information, please contact:
Gillian Rozenberg: gillian_rozenberg@yahoo.com
or
Maree James: maree.james@thermofisher.com

The Medical Scientist

COULTER SCIENCE

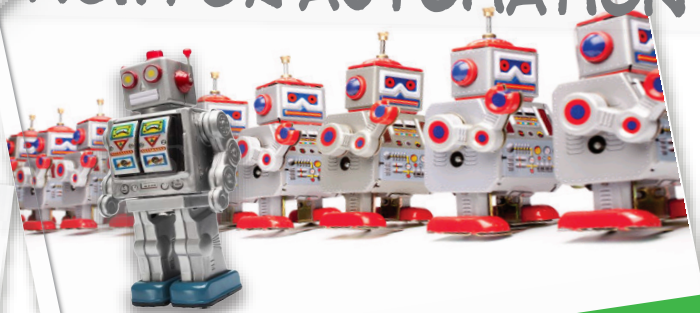


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“ADVANCING MEDICAL SCIENCES TOGETHER”

The recent multidisciplinary AIMS “Advancing Medical Science Together” conference was a huge success!



Presentation by Sarah Just on Anticoagulant therapy and Prof Tony Woods talking about snake venom. (Left to Right).

The recent two-day multidisciplinary “Advancing Medical Sciences Together” Conference was held at the impressive Crowne Plaza Hotel in Canberra.

Anup

Patel

anuppatel@nscchs.health.nsw.gov.au

The opening session included the official opening by **Meredith Liddy** CEO of AIMS and began with a morning of microbiology talks with **Anup Patel** Medical Scientist in Microbiology giving an insightful talk on “What a difference a day makes - A history of microorganism identification in the diagnostic microbiology laboratory”, this was followed by an interesting talk and discussion by Senior Scientist in Microbiology and Mycology expert **Helena Beltrami** on QAP in

The Medical Scientist



Mycology. Morning tea was followed by a fascinating talk from **Dr Antoinette Anazodo** entitled “Big Kids or little Adults”. Dr Anazodo is the director of the Sydney Youth Cancer Service, a collaboration between the “Centre for Children’s Cancer and Blood Disorders” at the Sydney Childrens Hospital and the “Comprehensive Cancer Centre” at the Prince of Wales Hospital, Sydney. The Sydney Youth Cancer Service is a first for Australia and a very much-needed facility for adolescents with cancer.

The commencement of the afternoon sessions began with **Gillian Rozenberg** (FAIMS) Senior Medical Scientist from the Prince of Wales Hospital kicking off a triple expert’s session on the Diagnosis of Acute Leukaemia. Together with **Charmanie Savona** and **Pauline Dalzell**, the three speakers outlined the major tools used to diagnose acute leukaemia. This was a fascinating session as rarely does one have an opportunity to be exposed to the complete workup of a patient with acute leukaemia. Morphology, Flow Cytometry and Cytogenetics were outlined in seven children with B-cell and T-cell acute lymphoblastic leukaemia, Burkitt cell leukaemia, myeloid leukaemia, promyelocytic leukaemia and megakaryocytic leukaemia respectively.

Consultant Pathologists **Dr Sumi Ranjit** and **Dr Paul Whiting** then joined the line-up of excellent speakers and spoke in-depth about Case Studies in Anatomical Pathology showing excellent slides of tissue cross sections to the audience.

The

Medical Scientist

The opening day talks were rounded off by concurrent sessions the first one by Senior Scientist at The Canberra Hospital **Angelique Clyde-Smith** on “A, B, QC” where Angelique discussed the challenges of setting up a quality control system and one that works and asked the question “who is responsible for QC?” The last session was presented by Senior Scientist in Endocrinology **David Hughes** where he discussed “Standardisation and harmonisation in Clinical Chemistry”.

The opening day was concluded with an excellent dinner and light-hearted talk by **Professor Tony Woods** on “Snake Venom”.

The second day started with **Dr Anindita Das** posing the question “Can microbes and Us peacefully coexist?” which was followed by an excellent and insightful presentation by **Sarah Just** (MAIMS) and Senior Scientist at the Prince of Wales Hospital on the latest in Anticoagulant drugs and therapies.

After morning tea **Gillian Rozenberg** and **Sarah Just** talked about “Paediatric Case Studies” and demonstrated the collaborative approach needed to diagnose haematological and coagulation diseases.

Dr Agustin Franco gave us a wonderful insight into the workings of PCR and related applications in particular some of the latest research and testing tools his group are using in diagnosing disorders and diseases.

Straight after we heard from Wendy Beckingham Clinical Nurse Coordinator for The Canberra Hospital on what infection control services would have been provided or lack of and what new challenges face infection control nurses into the future.

The afternoon sessions covered “Tonsillar Cancer in the Third Millennium” by **Dr Jane Twin**, “How to become a successful Medical Scientist” by Professor Tony Woods and two excellent presentations were given by AIMS NSW/ACT Branch Student Representatives **On Ki Chan** and **Aimee Carberry**. On Ki’s presentation was “Altered Monocyte/Macrophage function in Gaucher Disease”, while Aimee’s

The

Medical Scientist

presentation was “I am only seven weeks old! I am in the ICU at the Sydney Children’s Hospital with bronchiolitis. Can you please help my doctor with a diagnosis from my blood film?” Both excellent presentations!

The well attended conference was closed with the official farewell from Gillian Rozenberg.

The AIMS NSW/ACT Branch Committee would like to take this opportunity to thank all presenters, attendees and trade for supporting the conference and we look forward to seeing you next time!

Anup Patel

Treasurer AIMS NSW/ACT Branch

The Medical Scientist

AUSTRALIAN PUBLICATION

Microscopic 3e Haematology

a practical guide for the laboratory

Gillian Rozenberg FAIMS, Senior Medical Scientist, Department of Haematology, SEALS Randwick, Prince of Wales Hospital, NSW, Australia

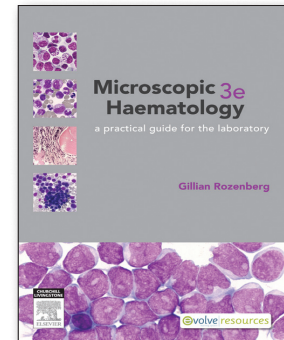
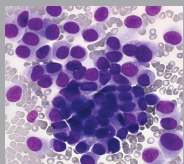
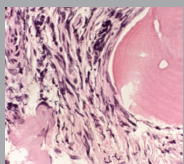
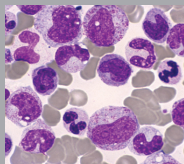
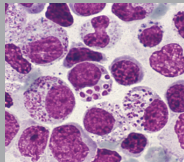
Microscopic Haematology 3e is an atlas of haematology designed for use in a diagnostic setting. The third edition provides over 400 full colour haematological slides of exceptional quality.

Arranged in a logical order, it commences with the red cell series describing normoblastic erythropoiesis and then goes on to describe abnormal erythropoiesis and all the red cell disorders associated with anaemia. Each type of anaemia is described with a minimal amount of text and accompanied by coloured haematological slides depicting the red cell changes associated with the particular disorder. The images have been magnified x 1000 and are of a very high quality.

The white cell and platelet section follows on and adheres to the same format as the red cell section.

There is a section on haematology relating to paediatrics which describes red cell, white cell and platelet disorders occurring in cord blood, the neonate and childhood.

The last section is on Blood Parasites and describes the four species of human malaria. A description of the characteristic features of each species as it occurs in the red cell is accompanied by images clearly depicting the various stages of maturation of each species of malaria.



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New to this edition

- aligned to the current WHO classification standard
- expanded to cover blood cell production, haematopoiesis, and disease physiology
- detailed case studies for both adult and paediatric conditions (on **Evolve**)
- approximately 90 new images show cell morphology and cell ultrastructures
- comprehensive electronic teaching and learning package, including image bank and interactive case studies to assist with the development of differential diagnostic skills

Features

- paediatrics section - describes red cell, white cell and platelet disorders occurring in cord blood, the neonate and childhood
- over 450 high quality images
- 30 detailed case studies
- online image bank

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Offer ends 31/12/2013

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Cases in Microscopic Haematology

Gillian Rozenberg, FAMS

Senior Medical Scientist, Department of Haematology, SEALS Randwick, Prince of Wales Hospital, NSW, Australia

Cases in Microscopic Haematology is a collection of 80 case studies specifically designed to engage the learner in the laboratory process of data and blood film analysis, differential diagnosis and reporting.

Each case provides the family history, analyser data and blood film/slide. Students use a template to complete the differential diagnosis and reporting. The process and template simulates the laboratory environment. Cases are organised according to difficulty and the worked cases are available in the back of the text.

A suite of 20 Virtual Slides will accompany the casebook. *Cases in Microscopic Haematology* is an excellent companion to *Microscopic Haematology: a practical guide for the laboratory 3e* and will appeal to both the academic and professional market as either a pack or stand alone resource.

This text will provide the opportunity for the student and laboratory scientist to work through the case studies using a template similar to that used in a functioning laboratory.

Features

- 20 annotated Virtual Haematology Slides
- 80 Haematology cases to be worked through using template
- Simulates laboratory process
- Includes rare range of blood film/slides not easily accessible (including paediatric)

Table of Contents

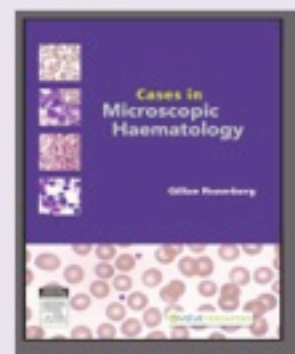
1. How to use this book
2. Examination of the blood film
3. Red cell cases
4. White cell cases
5. Platelet cases
6. Malaria cases
7. Answers

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Evolve Resources for Instructors

- Image Collection – all the images from the book
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 - Virtual Slide Annotations

Specifically designed to engage the learner in the laboratory process of data and blood film analysis, differential diagnosis and reporting.



October 2011

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ABN 36714064947

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Friday 23 August – Saturday 24 August 2013

Sir Stamford Hotel

93 Macquarie Street, Circular Quay, Sydney

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Red cell nomenclature
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WHO Classification of myelodysplastic syndromes
WHO Classification of acute myeloid leukaemia
and related precursor neoplasms

Day 2:

Malaria
Lymphocytes: reactive / neoplastic
Paediatric Haematology
Case Studies

**Comprehensive manual and self assessment booklet of questions and answers will be provided.
This workshop attracts 20 AIMS ASPACE Points.**

Fee: \$600.00

Cost will include a copy of "Cases in Microscopic Haematology"

Time: Friday 08:30 – 09:00 Registration / Lectures 09:00 – 17:30
Saturday Lectures 08:00 – 15:30

Refreshments: morning and afternoon tea and lunch will be provided

Expression of interest: gillian_rozenberg@yahoo.com

Mobile: +61 (0) 419 639 529

www.microscopic-haematology.com

Gillian Rozenberg Training Workshops

ABN 36714064947

Haematology Morphology Workshops - Sydney 2000, NSW, AUSTRALIA

Sir Stamford Hotel, 93 Macquarie Street, Circular Quay, Sydney

REGISTRATION FORM

April 26-27 Workshop (tick box) August 23-24 Workshop (tick box)

DELIGATE INFORMATION

Title: _____ Given Name: _____ Surname: _____

Address for correspondence: _____

Organisation: _____

Position: _____ Phone: _____ Fax: _____

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REGISTRATION FEE \$600.00 (ex. GST) per participant. Workshop limited to 35 participants.

Payment details: Telegraphic transfer / Bank cheque
Bank Account details: Gillian Rozenberg Training Workshops
St George Bank
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Account Number: 482975715

Make cheques payable to: Gillian Rozenberg Training Workshops
Please Fax or mail Registration forms and Payment to: Fax: + (61 2) 9327 6975
Mail: 5/4 Greenoaks Avenue, Darling Point, NSW 2027, Australia

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Dates for your diary
2013



HAEMATOLOGY DISCUSSION GROUP PROGRAM FOR 2013

February 19	Clinical Review 'Complications in Pregnancy'
April 8	Molecular Genetics
June 3	What is the Diagnosis? Quiz Night
July 1	Trivia
August 5	Clinical Review (topic to be announced)
October 14	Paediatric Case Studies
November 4	Basic Flow Cytometry (Part 2)
December 2	Summary of 2013

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News In Short

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The Australian Institute of Medical Scientists (AIMS) APACE Program



APACE Accreditation is achievable by all Credit where credit is due!

The APACE (Australasian Professional Acknowledgement of Continuing Education) scheme is a voluntary program that recognises continuing education, formal courses and a wide range of professional activities which contribute to your professional growth.

The healthcare industry is undergoing rapid change. We are expected to keep our knowledge and skills up to date to enable us to perform to the highest professional standard. The APACE scheme provides a method by which your professional activities are recognised.

APACE has been approved by the New Zealand Medical Laboratory Science Board as a recertification program for New Zealand Medical Laboratory Scientists. The healthcare industry is undergoing rapid change. We are expected to keep our knowledge and skills up to date to enable us to perform to the highest professional standard. The APACE scheme provides a method in which your professional activities may be recognised.

www.aims.org.au/apace

The *Australian Institute of Medical Scientists (AIMS) Fellowship Program*

The Fellowship has been updated and provides a flexible staged process towards completion of the program.

A modular structure has been developed comprising two compulsory and two elective modules to be completed for each discipline. For the General/Core Laboratory discipline the four modules are compulsory. Considerable flexibility is provided to the study format, subject modules that can be selected, and the timeframe for completing the programme. Mentoring arrangements are made as required for each candidate.

The program also retains a viva voce examination. A dissertation may not be required at the end stage if, during the previous five years, the candidate has published a paper in a relevant peer reviewed journal or successfully completed a research degree thesis approved by the Examinations Council.

The new model provides for Members to undertake any module without formally entering the Fellowship program. APACE certificates are awarded and 40 APACE points accrued for successfully completed modules; compulsory modules completed attract advanced standing for subsequent enrolment into the Fellowship programme within a five year period.

The Fellowship provides an attractive and highly competitive option to academic post graduate degrees at a fraction of the cost. The Fellowship is recognised by the National Pathology Accreditation Advisory Council of the Department of Health and Ageing as meeting the requirements for supervision of category GX and GY laboratories.

See below for the regulations, modules and curricula, and enrolment and examination application forms.

I encourage Members to consider the new Fellowship as the preferred option for advancing their knowledge and career prospects.

Barry Gormley
Chair, Examinations Council

The Medical Scientist

Links of the Month



▶ **Time-lapse photography**

Watch an amazing HD video of mould and fungi time-lapse photography
www.youtube.com/watch?v=JsQHWj2RfXg

▶ **RCPA QAP new company structure**

www.aims.org.au/news/rcpa-qap-new-company-structure

▶ **Impact of Electronic Ordering on Pathology**

www.aims.org.au/documents/item/295

▶ **Guidelines and recommendations for the quality-assured conduct of POCT**

www.aims.org.au/documents/item/296



The Medical Scientist

What's On



▶ February

-Antimicrobials 2013, 21st-23rd February, Sydney, www.antimicrobials2013.com

-RCPA AACB Chemical Pathology, 11th-15th February, Perth, www.aacb.asn.au/events/category/chempath-course

-RCPA Pathology Update "Melbourne Under the Microscope" 22nd-24th February, Melbourne, <http://www.rcpa.edu.au/Continuing/PathologyUpdate.htm>

▶ March

-Parasitology Masterclass, 1st-2nd March, Adelaide, www.parasitologymasterclass.theasm.org.au

▶ April

-Haematology Morphology Workshop, 26th-27th April, Sydney, www.microscopic-haematology.com

▶ May

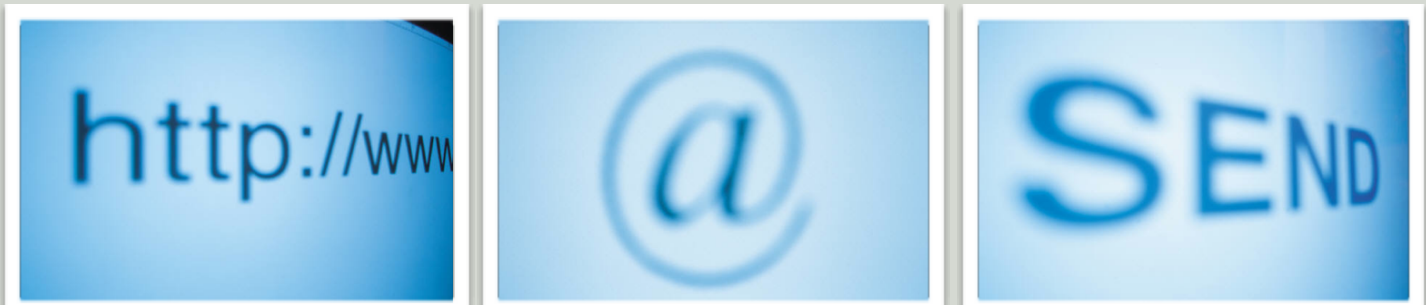
Viruses in May, 9th-11th May, Katoomba, Sydney, <http://www.rcpa.edu.au/Continuing/VIM/Viruses%20May%202013.htm>

▶ July

-The Australian Society of Microbiology (ASM) Annual Scientific Meeting
7th-10th July, Adelaide, www.theasm.org.au/meetings/asm-adelaide-2013/

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