

CONFERENCE PROGRAM

Disclaimer: The speaker, topics and times are correct at the time of publication. In the event of unforeseen circumstances, the organising committee reserves the right to delete or alter items in the conference program.

MONDAY 12TH OCTOBER 2009

WORKSHOPS

| 08.00-14.00 | Registration | | Riverbank Foyer | | |
|---------------|---|---|--|--|--|
| 09.00 – 12.30 | <p>Riverbank Room 1 Robyn Wells Malaria Morphology This workshop will focus on the morphological characteristics of the five <i>Plasmodium</i> species. The features of each of the stages and species will be discussed and examples of thick and thin films will be shown. A number of cases will be presented and the species determined with input and interaction from the participants.</p> | <p>University of South Australia, City East Campus, Hetzel Building, Level 5, Room 2 (H5-02) and Playford Building, Room P1-06 09.30 start Steve Davis</p> <p>FULL DAY WORKSHOP</p> <p>Classical approach to fungal identification: macroscopic and microscopic</p> <p>The purpose of this workshop is to teach individuals how it is possible to identify many fungi from microscopic and macroscopic features alone. There will be a couple of 'walk throughs' using the dichotomous key from 'Atlas of Clinical Fungi' showing delegates how many unusual fungi can be identified using this tool. There will be two talks incorporated into the workshop, the first with the title of the workshop, giving the background information required to identify a fungus from scratch. In the second talk entitled, "Laboratory Mycology", I will talk about the relevance of various fungi when isolated from clinical specimens. In this last talk, particular attention is focused on the dermatophytes, as well as the yeasts and their differentiation from organisms that may be mistaken for yeasts.</p> | <p>Meeting Room 9 Craig Cox Claire Prowse Immunohaematology</p> <p>CSL will present a 3 hour dry workshop that will cover basics principles of Immunohaematology, ABO and Rh(D) blood grouping and antibody investigative techniques. Common causes of blood group discrepancies and resolutions will be reviewed as well as antibody identification. Participants will work through relevant case studies.</p> | | <p>Meeting Room 8 Elizabeth Clark</p> <p>FULL DAY WORKSHOP</p> <p>Dangerous Goods Packaging (CASA Accredited) Training Course for Shippers of Infectious Substances, Genetically Modified Micro-organisms, Genetically Modified Organisms and Dry Ice</p> <p>This one day course includes</p> <ul style="list-style-type: none"> • Australian legislation • IATA regulations • Classification of substances • Identification of proper shipping names • Packing instructions • Marking and labelling • Documentation • Surface transport • Transport by Australia Post <p>Following completion of the training, participants sit for a one hour open-book competency-based examination. Successful participants are issued with a Certificate of Accreditation which is valid for 2 years (and recognised nationally and internationally).</p> |
| 13.30 – 17.30 | <p>Riverbank Room 1 Brian Matthews</p> <p>Fundamental blood cell morphology</p> | <p>University of South Australia, City East Campus, Hetzel Building, Level 5, Room 2 (H5-02) and Playford Building, Room P1-06 09.30 start Steve Davis</p> <p>FULL DAY WORKSHOP</p> <p>Classical approach to fungal identification: macroscopic and microscopic</p> <p>The purpose of this workshop is to teach individuals how it is possible to identify many fungi from microscopic and macroscopic features alone. There will be a couple of 'walk throughs' using the dichotomous key from 'Atlas of Clinical Fungi' showing delegates how many unusual fungi can be identified using this tool. There will be two talks incorporated into the workshop, the first with the title of the workshop, giving the background information required to identify a fungus from scratch. In the second talk entitled, "Laboratory Mycology", I will talk about the relevance of various fungi when isolated from clinical specimens. In this last talk, particular attention is focused on the dermatophytes, as well as the yeasts and their differentiation from organisms that may be mistaken for yeasts.</p> | <p>Meeting Room 9 Vicki McGill Neil McGill</p> <p>RCPA Synovial Fluid QAP This workshop includes:</p> <ul style="list-style-type: none"> • An overview of clinical presentations in which synovial fluid examination is useful • The basics of polarised light microscopy • Synovial fluid collection and handling – avoiding the pitfalls • Description of crystals and other particles detectable in synovial fluid | <p>Riverbank Room 3 Michael Harrison</p> <p>Causes of Elevated LFTs An 18th century proverb is 'All things are difficult before they are easy' and this certainly applies to the interpretation of that group of basic serum chemical analyses called (erroneously) Liver Function Tests (LFTs).</p> <p>Abnormalities of LFTs are the most common derangement seen in profiles of common biochemical tests. The changes seen are by themselves rarely diagnostic of specific Pathological processes and instead can be classified into certain patterns each of which has a differential diagnosis (often long). However, in combination with the clinical setting and other test findings it is surprising how often a specific diagnosis can be made. Having said that, many minor abnormalities of</p> | <p>Meeting Room 8 Elizabeth Clark</p> <p>FULL DAY WORKSHOP</p> <p>Dangerous Goods Packaging (CASA Accredited) Training Course for Shippers of Infectious Substances, Genetically Modified Micro-organisms, Genetically Modified Organisms and Dry Ice</p> <p>This one day course includes</p> <ul style="list-style-type: none"> • Australian legislation • IATA regulations • Classification of substances • Identification of proper shipping names • Packing instructions • Marking and labelling • Documentation • Surface transport • Transport by Australia Post <p>Following completion of the training, participants sit for a one hour open-book competency-based examination. Successful participants are issued with a Certificate of Accreditation which is valid for 2 years (and recognised nationally and internationally).</p> |

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| | | | | LFTs remain without a specific cause being implicated and it is usually a matter of judgement as to whether they need to be further investigated. A reasonable strategy in the case of mild elevations of uncertain cause is to follow the abnormality for 1 – 6 months with occasional LFT measurements and often the errant chemistries normalise. | |
| 18.30 – 20.00 | A Tasting Tour of Scottish Whiskies | | | Riverbank Room 1, Adelaide Convention Centre | |

TUESDAY 13TH OCTOBER 2009

WORKSHOPS

AIMS NATIONAL SCIENTIFIC MEETING

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|---------------|---|--|--|---|--|-----------------|
| 08.00-14.00 | Registration | | | | | Riverbank Foyer |
| 09.00 – 12.30 | <p><i>Riverbank Room 1</i></p> <p>Robyn Wells</p> <p>Morphological challenges This workshop presents cases that many blood film reviewers find challenging. Those cases will be reviewed, the features discussed and differential diagnoses considered. Helpful characteristics that lead to the correct diagnosis will be demonstrated. Cases presented will include childhood leukaemias, Hereditary Spherocytosis, lymphoma cases, acute promyelocytic leukaemia and viral infections.</p> | <p><i>Meeting Room 8</i></p> <p>Dennis Mok</p> <p>Effective leadership skills for medical laboratory practitioners The purpose of this workshop is to provide practical leadership knowledge necessary for leaders to apply in a medical laboratory environment characterised by complexity and uncertainty. The content applies to all levels, therefore both technical and managerial leaders are encouraged to attend. While different aspects of leadership are emphasised over the years, what remains constant is that the more leadership is supported and encouraged, the more it will flourish.</p> | <p><i>Riverbank Room 2</i></p> <p>10.00 to 12.30 Penny Petinos</p> <p>KIMMS WORKSHOP</p> <p>Free half day workshop</p> <p>Presentations will address data extraction/capture issues of KIMMS data requirements from Laboratory Information Systems (LIS). Speakers will share information with participants on 'how they have set up systems to capture/extract data from the LIS, that is required by KIMMS'. QAP speaker will update participants with the new KIMMS direct data entry and data analysis software system.</p> | <p><i>Meeting Room 9</i></p> <p>Becton Dickinson Brian Smith</p> <p>Preanalytical Workshop The workshop will be run in two sessions, pre-analytical variables followed by best practice.</p> | <p><i>Riverbank Room 3</i></p> <p>Ken Worth & Collin Sheppard</p> <p>FULL DAY WORKSHOP</p> <p>Lean Six Sigma The workshop schedule includes:</p> <ul style="list-style-type: none"> Initial introduction to LGS with basic overview of how projects run The need for measurements, how to measure, what to measure Variation: what is it, why is caused, why is it important, how can we control it? What is waste? How do you see it? Types of waste? Steps to eliminate waste Organising workflow and layout: describing workflows with flow charting and Value Stream Mapping, develop understanding of Takt time, learn to sequence activities (flow), balancing of workstations to avoid build ups/ backlogs. Introducing the concept of Standard Work: what does it mean, why does it give results, how do we implement it, how | |
| 13.30 – 17.30 | <p><i>Riverbank Room 1</i></p> <p>Craig Cox Claire Prowse</p> <p>Snake venom detection Are your staff experienced in Snake Venom Detection? CSL will present a 2 hour snake workshop. Topics covered: 1. Dangerous Australian snakes.</p> | <p><i>Meeting Room 8</i></p> <p>Dennis Mok</p> <p>Meeting the challenge of incremental change The purpose of this workshop is to provide practical change leadership and management techniques necessary for leaders to apply in a medical laboratory environment.</p> | <p><i>Riverbank Room 2</i></p> <p>John Stirling</p> <p>Scientific writing and publication The aim of this workshop is to improve critical writing skills and increase understanding of the publication process. The workshop will focus on what is suitable for publication and the basic</p> | | | |

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| | <p>2. Venoms and envenomation 3. Principles of First Aid. 4. Snake venom detection kit (SVDK)</p> <p>Participants will be able to gain experience in the use of the SVDK during the hands-on practice session</p> | | <p>skills required to write journal articles (with a focus on case studies). The mechanics of publication will also be covered. The workshop is suitable for all inexperienced authors including students, 'bench' scientists and technologists and senior staff, in fact anyone who would like to publish or would like an opportunity to improve their writing skills.</p> | | <p>do we refine it?</p> <ul style="list-style-type: none"> Developing a "pull" system for workflow, reducing batch size, calculating optimal process design. |
| 16.00 – 18.30 | Registration | | Hall K , Adelaide Convention Centre | | |
| 18.00 – 19.30 | Opening Cocktail Reception | | Halls J & K Adelaide Convention Centre | | |

WEDNESDAY 14TH OCTOBER 2009
AIMS NATIONAL SCIENTIFIC MEETING

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| 08.00 – 17.30 | Registration | | | | | | Hall K |
| 08.45 – 09.30 | <p>Official Opening <i>His Excellency Rear Admiral Kevin Scarce AC CSC RANR, Governor of South Australia</i></p> <p>AIMS Award presentations</p> | | | | | | Hall C |
| 09.30 – 10.15 | <p>Keynote Address <i>Peter Rathjen</i> Stem Cell Research; Today and Tomorrow</p> | | | | | | Hall C |
| 10.15 – 11.00 | <p>Saal-Foley Lecture <i>John Glasson</i> Innovation, Automation and Art</p> | | | | | | Hall C |
| 11.00 – 11.30 | Morning break | | | | | | Halls J & K |
| 11.30 – 13.00 | <p>Plenary Session 1 Chair: John Stirling</p> <p><i>Susan Branford</i> Molecular monitoring of chronic myeloid leukaemia – recent developments and their clinical significance</p> <p><i>Stuart Blacksell</i> Commercial diagnostics for acute dengue infection – the Southeast Asian experience</p> | | | | | | Hall C |
| 13.00- 14.00 | Lunch and Posters | | | | | | Halls J & K |
| 14.00 – 15.30 | <p>Session 1 Biochemistry Riverbank Room 2 Chair: Peter Coyle</p> <p><i>Helen Martin</i> Case studies</p> | <p>Session 2 Microbiology Riverbank Room 1 Chair: Peter Traynor</p> <p><i>Jan Bell</i> MBLs and ESBLs</p> | <p>Session 3 Haematology Hall C Chair: Marco Di Girolamao</p> <p><i>Ross Brown</i> Multiple</p> | <p>Session 4 Histopathology Meeting Room 9 Chair: Michelle Tamblyn</p> <p><i>Janette Thurley</i> Neuronal and axon</p> | <p>Session 5 Transfusion and Transplantation Meeting Room 10 Chair: Brian Dale</p> <p><i>Sue McLennan</i> Blood salvage</p> | <p>Session 6 Molecular Pathology Meeting Room 11 Chair: David Nielsen</p> <p><i>Graeme Suthers</i></p> | |

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| | RCPA QAP <i>Shaw Callen</i> Monitoring your methods with chemical pathology QAP | <i>John Merlino</i> MRSA: a successful pathogen today and tomorrow <i>Ian Kay</i> Vancomycin resistant enterococci | myeloma RCPA QAP <i>Ros Bonar and Fifi Intan</i> Advances in haematology QAP including virtual microscopy <i>Colin Story</i> Measurement Uncertainty (MU) - in haematology | guidance in brain development <i>Ruth Davies</i> IHC Case studies <i>Sharin Prakash</i> Lynch Syndrome (HNPCC) – the role of Immunohistochemistry for mismatch gene protein in screening of patients | <i>David Roxby</i> Advances in response to massive blood loss | The State of Play: genetic testing in Australia <i>Elizabeth Thompson</i> Huntington Disease: clinical aspects of genetic testing <i>Lesley Snell</i> Laboratory Diagnosis of Huntington's Disease |
| 15.30 – 16.00 | Afternoon break Halls J & K | | | | | |
| 16.00 – 17.30 | Session 7 Biochemistry Riverbank Room 2 Chair: Marco Di Girolamao | Session 8 Microbiology Riverbank Room 1 Chair: Peter Traynor | Session 9 Haematology Hall C Chair: Olivia Jacoub | Session 10 Histopathology Meeting Room 9 Chair: Michelle Tamblyn | Session 11 Changing patterns of disease Meeting Room 10 Chair: Peter Coyle | Session 12 Immunology Meeting Room 11 Chair: David Nielsen |
| | <i>Michael Metz</i> Cases in kids' chemistry <i>Peter Clements</i> Metabolomics: revolutionising today's medical science for tomorrow | <i>Andrew Lawrence</i> Laboratory diagnosis and further differentiation of meningococcal disease and strains of neisseria meningitides RCPA QAP <i>Elizabeth Haremza</i> Overview and key challenges <i>Mitchell Brown</i> Unusual isolates: tips and troubleshooting ideas | <i>Pam Dyson</i> Monitoring post transplant recovery <i>Neil Horton</i> Bone Marrow Donation "The Agony and the Ecstasy" <i>Matthew Jackson</i> Experiences of a bone marrow recipient | <i>David Eitzen and Maria Bellis</i> SA Forensic Histopathology: from the beginning to now | <i>John Merlino</i> Changing Patterns of Antimicrobial Resistances in Bacterial Infections <i>Beverly Mühlhäusler</i> Future health challenges: an intergenerational perspective <i>Keith Eastwood</i> Influenza update: paradigms and pandemics | RCPA QAP <i>Loretta Wheatland</i> Immunology QAP and your laboratory <i>Deane Byers</i> Serology QAP case studies |
| 17.30 – 18.30 | APACE Happy Hour (open to currently APACE accredited delegates only) Halls J & K | | | | | |
| 19.30 - Late | Haematology Discipline Dinner: <i>Red Ochre Restaurant</i> Histology Discipline & Clinical Chemistry Discipline Dinner: <i>Jolley's Boathouse</i> Microbiology Discipline Dinner: <i>Alphutte Restaurant</i> | | | | | |

THURSDAY 15TH OCTOBER 2009
AIMS NATIONAL SCIENTIFIC MEETING

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| 08.00 – 17.15 | Registration | | | | | Hall K |
| 09.00 – 10.30 | Plenary session 2 Chair: Tony Woods <i>Ulysses Balis</i> Update on Content-Based Image Retrieval (CBIR) Technology: incremental algorithmic advances making deployment in surgical pathology an increasingly viable proposition <i>Brendan McMorran</i> Novel host-protection mechanisms in malaria infection | | | | | Hall C |
| 10.30 – 11.00 | Morning break | | | | | Halls J & K |
| 11.00 – 12.30 | Session 13 QAP Hall C Chair: Penny Petinos | Session 14 Microbiology Rickettsial Symposium Riverbank Room 1 Chair: John Merlino | Session 15 Haematology Riverbank Room 2 Chair: Olivia Jacoub | Session 16 Histopathology Meeting Room 10 Chair: John Stirling | Session 17 Molecular Pathology Meeting Room 11 Chair: Jacqueline Carroll | |
| | RCPA QAP <i>Penny Petinos</i> Key incident monitoring and management systems (KIMMS) <i>David Porter</i> Using KIMMS to engender improvement in clinical practice <i>Kathy Bayley</i> Pre - analytical errors – making a difference | <i>Stuart Blacksell</i> Diagnosis of Rickettsial disease in SE Asia <i>Steven Graves</i> Epidemiology and diagnosis of Rickettsial disease in Australia | <i>Joe Manitta</i> Malaria update <i>Kaye McCallum</i> Case studies <i>Valli Gomierato</i> Case studies | <i>Ulysses Balis</i> Lessons learned from advanced bar code driven asset tracking, automation and workflow management for anatomic pathology: the combined Massachusetts General Hospital and University of Michigan experiences <i>Sue Sturrock</i> Back to the future <i>Colin Gordon</i> Something basic about fuchsin | <i>Hamish Scott</i> Towards your personal genome sequence <i>Madelyn Zawitkowski</i> Familial cancer and the genetic testing process <i>Hamish Scott</i> Epigenetic hypermutation | |
| 12.30 – 13.00 | Lunch and Posters | | | | | Halls J&K |
| 13.00 – 14.00 | AIMS Annual General Meeting Meet the AIMS Board (AIMS Members Only) | | | | | Meeting Room 10 |
| 14.00 – 14.30 | <i>Tony Woods</i> Update on Registration of Medical Scientists (All Welcome) | | | | | Meeting Room 10 |
| 14.30 – 15.30 | Session 18 Biochemistry Hall C Chair: David Nielsen | Session 19 Transfusion and Transplantation Riverbank Room 1 Chair: Maureen Jacobsen | Session 20 Flow cytometry Riverbank Room 2 Chair: Ross Brown | Session 21 Histopathology: Cut up Meeting Room 10 Chair: Tony Woods | Session 22 Pandemic Responses Meeting Room 11 Chair: Neil Horton | |
| | <i>Mark Shephard</i> New initiatives in POCT for rural | RCPA QAP <i>Geoff Magrin</i> General Transfusion | <i>Heddy Zola</i> Monoclonal antibodies and | Case studies <i>Yee Khong</i> Changes to NPAAC | <i>Keith Eastwood</i> Lessons from H1N1 09: is Australia ready for a | |

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| | <p>and remote communities</p> <p><i>Penny Coates</i> Case Studies</p> | <p>program: transition to a web-based program</p> <p><i>Arthur Joyce</i> Laboratory performance in the detection of Weaker Expression of ABO Blood Group Antigens - a comparison of Educational Exercises from 2004 and 2008</p> | <p>flow cytometry – techniques made for each other and for pathology</p> <p><i>Peter Gambell</i> Monoclonal B-cell Lymphocytosis (MBL) & Chronic Lymphocytic Leukaemia (CLL) – Clinical Implication and Flow Cytometry Application</p> | <p>documentation for the performance of the pathology surgical cut-up</p> <p><i>Grant Taggart</i> Surgical cut-up – skin and skin pathology</p> | <p>real pandemic?</p> |
| 15.30 – 16.00 | Afternoon break | | | | Halls J&K |
| 16.00 – 17.15 | <p>Session 23 Proffered papers Hall C Chair: Maureen Jacobsen</p> | <p>Session 24 Proffered Papers Riverbank Room 1 Chair: Ralph Green</p> | <p>Session 25 Histopathology: Cut up (cont) Meeting Room 10 Chair: Michelle Tamblyn</p> | <p>Session 26 Young Scientists Meeting Room 11 Chair: Brian Dale</p> | Proffered papers |
| | <p><i>Clifford Hughes</i> A case presentation of polycythemia rubra vera related to Janus Kinase – 2 (JAK-2) Exon 12 mutation R541-E543delinsK</p> <p><i>Robyn Wells</i> Unusual cases of haemolytic anaemia in children</p> <p><i>Vana Papisimeon</i> Clinical utility of automated malarial discriminant factors for detecting malaria on the Beckman Coulter LH750</p> | <p><i>Sydney Yuen</i> Ictal status</p> <p><i>Merrienne Wardle</i> Tackling training, competency and service delivery in a challenging environment</p> | <p>Case studies</p> <p><i>Christine Mott</i></p> <p><i>Kellie Madigan</i></p> <p><i>Lisa Mills</i></p> | <p><i>Maria Garcia</i> Metallothionein-I and -II are needed to protect the growing skeleton during acute methotrexate chemotherapy: possibilities for protective zinc-therapy treatment</p> <p><i>Deanna Wallis</i> Investigation of the pre-analytical variables of the XACT test for the assessment of in-vivo platelet activation and preliminary clinical studies</p> <p><i>Nesrine Kamal Bassal</i> Regulation of indoleamine 2,3-dioxygenase by polyunsaturated fatty acids-interfering with cancer mediated immunosuppression</p> | |
| 19.00 – 23.30 | Conference Dinner | | | | Hall F, Adelaide Convention Centre |

FRIDAY 16TH OCTOBER 2009
AIMS NATIONAL CONFERENCE

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|---------------|--|---|--|--|---|-------------|
| 08.30 – 15.00 | Registration | | | | | Hall K |
| 09.00 – 10.30 | Plenary session 3 Chair: John Stirling | | | | | Hall C |
| | <i>Howard Morris</i> Traceability and standardisation of immunoassays: a major challenge | | | | | |
| | <i>Barney Rudzki</i> Present and future directions in diagnostic molecular pathology | | | | | |
| 10.30 – 11.00 | Morning break | | | | | Halls J & K |
| 11.00 – 12.30 | Session 27 New Diagnostics and Research Hall C Chair: Peter Coyle | Session 28 Microbiology Riverbank Room 1 Chair: Stuart Blacksell | Session 29 Haematology/Haemostasis Riverbank Room 2 Chair: Brian Dale | Session 30 Histopathology Meeting Room 10 Chair: Tony Woods | Session 31 Economics and transfusion Meeting Room 11 Chair: John Lown | |
| | <i>Enzo Ranieri</i> Neonatal screening for biochemical disorders <i>Greg Goodall</i> MicroRNAs involved in tumour metastasis | <i>Richard Lumb</i> Update on TB <i>Harsha Sheorey</i> Clinical parasitology <i>Bernard Hudson</i> The fifth human malaria (with a case study) | <i>Simon McRae</i> New therapies and tests in haemostasis <i>Tom Exner</i> Haemostasis techniques of tomorrow <i>Bronwyn Williams</i> Paediatric Immunity | <i>Rob Moore</i> Biology of spinal fusion <i>Ulysses Balis</i> Creating consortial momentum for the electronic exchange of clinical laboratory results via true interoperability standards: The LIDEx experience to date. <i>Roger Byard</i> Recent advances in forensic pathology – South Australia's Contribution | <i>Shannon Farmer</i> Economic modelling for blood usage <i>Kathryn Robinson</i> Hospital transfusion practice improvement | |
| 12.30 – 13.30 | Lunch and Posters | | | | | Halls J&K |
| 13.30 – 15.00 | Plenary session 4 | | | | | Hall C |
| | <i>John McBride</i> Dengue fever | | | | | |
| | Closing Address <i>Mr Hieu Van Le</i> <i>Lieutenant Governor of South Australia and Chairman of the South Australian Multicultural and Ethnic Affairs Commission</i> | | | | | |
| | Close of conference | | | | | |