



Syntrophy

Volume 17

Issue 2 2016

THE AUSTRALIAN SOCIETY FOR MICROBIOLOGY NSW-ACT BRANCH (ABN 24 065 463 274)

IN THIS ISSUE

From the Editor

by Timothy Newsome

We are off to a flying start in 2016 with a full calendar of events to keep our members busy. Our student members in particular will have had the opportunity to attend our Sydney Micro event in January, and the BD ASM Student Travel Award night last week. Two students who gave fantastic talks will be able to present their research on the national stage, at the ASM Annual meeting in Perth this July (see page #13 for more details). Having been on the organising committee for last year's meeting in Canberra, I know there will be many events catering specifically for students, educators, clinicians and researchers. In case you still need enticing, please check out the Awards section on pages 8-9 that can provide funds to subsidise attendance at ASM2016 Perth, or other microbiology-themed meetings that you might be planning to attend. There are awards available for Honours students, recent graduates, postdoctoral researchers and other ASM members; one of the awards will surely be a fit for you. It gives us great joy providing benefits to our members, but be warned, many of these awards close soon.

One of the functions of Syntrophy is advertise job opportunities to our members, which you can find listed on pages 6-7. If you need to fill a position that requires microbiological expertise, then keep in mind that Syntrophy can reach hundreds of microbiologists in the NSW/ACT region. Contact us to find out more. Next month we will be providing details on an upcoming Microbiology Careers evening, which we last ran to great success in 2014. And if you are thinking about using your microbiology background to communicate science then you may very well be interested in becoming a communication ambassador. Applications close soon, so check out page 2.

The Future Project: Engaging High School Students in Microbiology Research

by Belinda Chapman

Page #3

CAPSIG

Wednesday 13th April 2016
"Infection Control"

Main Auditorium, Canterbury Hurlstone Park
RSL 20-26 Canterbury Road, Hurlstone Park
5pm

Details page #10

Regular Features

- Upcoming Events Page #2
- Sponsors Page #2
- Event Reports Page #4 – 5
- Positions Vacant Page #6 – 7
- Awards Page #8 – 9
- Branch Contact Details Page #14

NEXT SYNTROPHY

Deadline for submissions to next issue:
22nd April 2016

CONTACT SYNTROPHY COORDINATOR
Susan.Badman@rcpaqap.com.au

Upcoming Events

CAPSIG



Wednesday 13th April 2016
"Infection Control"

Main Auditorium, Canterbury Hurlstone Park RSL
20-26 Canterbury Road, Hurlstone Park

5.00pm for a 5.45pm start.

RSVP Friday 8th April

melissa.bourke@biomerieux.com

Details page #10

2016 ASM COMMUNICATION AMBASSADOR

The 2016 ASM communication ambassador program is now open:
<http://theasm.org.au/student-ecr-members/asm-communication-ambassador-program/>

We would greatly appreciate it if you could circulate this to your state members – we need as many ambassadors as we can get! Applications close 31st of March 2016

Kind regards,

Dr Jack T.H. Wang, BSc/BInfTech, Ph.D, GCHEd.
Lecturer in Microbiology (Teaching-Focused)
UQ Microbiology Major Convenor
ASM VP Communications

Branch Sponsors 2016

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www.biomerieux.com.au



www.bd.com



www.thermofisher.com.au

ZIKA: THE LAST ARBOVIRUS

Wednesday 27th April 2016
ZIKA: The Last Arbovirus

School of Biomedical Sciences Seminar Room,
Building 288 Charles Sturt University, Wagga
Wagga campus.

12.30pm (A light lunch will be provided)

RSVP Tuesday 26th April

Thiru Vanniasinkam tvanniasinkam@csu.edu.au

Awards Closing Soon

ASM NSW-ACT Branch
The Joe Levey Graduate Award
31st March 2016

ASM NSW-ACT Branch
Members Service Award
31st March 2016

ASM Honours Student Prize
2nd April 2016

ASM NSW-ACT Branch
Postdoctoral Award
30th April 2016

Meeting Calendar

2016

3 – 6th July 2016
ASM Perth, WA

2017

ASM Hobart, TAS

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Focus

The Future Project: Engaging High School Students in Microbiology Research.

By Belinda Chapman, Director, Quantal Bioscience

Australia's recently released National Innovation & Science Agenda (www.innovation.gov.au) emphasises the criticality of science, technology, engineering and mathematics (STEM) to boosting Australia's competitiveness and national well-being. However, STEM capabilities in Australia have fallen behind at a time when our requirements for such skills are rapidly increasing. It has been estimated that 75% of jobs in the fastest-growing industries require STEM-skilled workers but, at present only around 16% of high school graduates pursue degrees in STEM disciplines¹.

The Future Project

(www.thefutureproject.com) is an initiative of The King's School in North Parramatta aimed at motivating and engaging the next generation of scientists and engineers by providing authentic science opportunities in collaboration with university and industry partners. Quantal Bioscience (www.quantalbioscience.com) (formerly Vitramed Bioscience) is one of the small industry partners involved in The Future Project. For the past two years, Quantal has engaged Year 10 and 11 students in genuine microbiology research projects, using a purpose-built PC2 laboratory co-located at The King's School, in a mini-innovation park.

Over the past two years, science interns involved in The Future Project have been engaged on laboratory studies complementing the company's clinical trial of a probiotic for the treatment of Crohn's Disease, including determining *in vitro* gastric transit tolerance of the probiotic, and development of selective media to recover and enumerate probiotics from faeces. Interns typically work over a three-term period. During the first term, interns focus on learning laboratory skills, and are assessed in their demonstration of these skills. To date, we've achieved 100% success in eliciting "wow!" or "cool!" or "it's like a whole galaxy in there" from students the first time they take a look down the fluorescence microscope at some bacteria. We are amazed at how much they enjoy the simplest of laboratory techniques, such as pipetting.

At the completion of the first term, science interns spend four days during the school holidays intensively working on their research projects. Great joys of this period are watching the mastery of skills that occurs over just four days, and the "aha!" moments that occur as students grasp the concepts central to their research project.

During the second term, interns refine their experiments, and then return for a second four-day intensive session in the mid-year school holidays to complete their experiments. It's great to see the increased confidence that students develop in the lab during the second intensive period.

During the third school term, science interns are mentored in presentation of experimental results, and in preparation of a journal article based on their work. The King's School publishes The Journal of The Future Project in-house each year, to showcase the science interns' research efforts. The inaugural edition of The Journal of The Future Project in 2014 included a forward by the then-Chief Scientist of Australia, Professor Ian Chubb, who reviewed all of the papers in the Journal and commented; "I think science should be taught as it is practised, and this new Journal is the proof of what that can yield."

Since its inception, The King's School has sought to extend the opportunity of The Future Project to students from other schools, and the microbiologists from Quantal Bioscience have taken a lead in this initiative. To date, in addition to science interns from The King's School, we have also worked with students from Snowy Mountains Grammar School and Baulkham Hills High School and, this year, we will work with a cohort of eight students from Doonside Technology High and a student from Mamre Anglican School. By extending the reach of The Future Project we hope to extend an appreciation of and fascination with science in general, and microbiology in particular, to encourage more high school students into further STEM study.

Beyond the interns themselves, The Future Project aims to change every-day conversations about science, as those involved in the program relate their experiences to their families and friends.

With recent media reports such as the Ebola virus, Zika virus and the human microbiome, the broader public is increasingly aware of how microbiology is involved in every aspect of our lives², and The Future Project has the opportunity to build on this momentum. Having a citizenry aware of the scientific process is

increasingly important as we face challenges in public health, climate change, food security and water resources³, and The Future Project contributes to this broader public engagement.

ABOUT THE AUTHOR

Dr Belinda Chapman, Director, is an applied research microbiologist with 20 years experience across the food, health and environment sectors. Belinda has worked in applied microbiology research for Arnott's Pty Ltd, Burns Philp Pty Ltd, The Sanitarium Health Food Company, the CSIRO, The Sydney Catchment Authority, Vitramed Pty Ltd and The Westmead Millennium Institute for Medical Research.

REFERENCES

1. Australian Industry Group. 2013. Lifting our Science, Technology, Engineering and Maths (STEM) Skills. http://www.aigroup.com.au/portal/binary/com.epicentric.contentmanagement.servlet.ContentDeliveryServlet/LIVE_CONTENT/Publications/Reports/2013/Ai_Group_Skills_Survey_2012-STEM_FINAL_PRINTED.pdf
2. Westenberg, D.J. 2016. The Engaged Microbiologist: Bringing the Microbiological Sciences to the K-12 community. *Journal of Microbiology & Biology Education*, March, p. 29-31.
3. Dunn, R.R., Urban, J., Cavalier, D., Cooper, C.B. 2016. The Tragedy of the Unexamined Cat. *Journal of Microbiology & Biology Education*, March, p. 4-6.

From left, clockwise: Darcii Terre (UWS Medical Science work experience student) and Michelle Bull (Quantal Bioscience) with Ted Simpson and Vithushan Lingham (2015 Future Project science interns from The King's School) working in the PC2 laboratory.





Australian Society for Microbiology NSW-ACT Branch



Christmas Seminar December 2015

by Hilary Fong

As with previous years for over two decades, the annual CAPSIG (NSW) Christmas Seminar has almost 160 attendees registered. This year, we had been fortunate to have Mr Derio Comar of Derio Comar Consulting sharing his unusual experience in the other side of cosmetic products.

As we all know, the pharmaceutical industry is strictly regulated, the cosmetic industry appears to be still a long way away. Derio has developed strong personal interest in the inconsistency in quality of different brands of cosmetic products; which to some extent, should be under the scrutiny of the consumer watch-dogs.

Derio conducted, in his accord, vast number of testing on some selected products (including many exclusively to the 'Sunday markets' or readily on sale from 'Timbuktu' via the internet, the results obtained are both interesting and alarming – certainly to microbiologists. We often heard that 'generic brands' may be as good as 'highly well-known brands; but what about quality consistency from batch to batch?

According to Derio, much of his research work and data are now in preparation for publication; hence, it is inappropriate to include in this brief, either in part or otherwise. In due course, we may be able to have a copy of his presentation posted in our web-site. To those who missed this event, please be patient.

To our sponsors – ams Laboratories, Clean Room Garments and Merck Millipore, we thank them sincerely for their continued support. Our thanks are also due to all other sponsors who kindly donated goods and lucky door prizes. To the staff of Canterbury Hurlstone Park RSL Club & kitchen, we are, as always, impressed with the exquisite decoration of the auditorium and the delicious seafood buffet dinner.





Australian Society for Microbiology NSW-ACT Branch



The BD ASM Student Travel Award Night

by Tim Newsome

With the Annual meeting of the Australian Society for Microbiology looming on the horizon, and we hope to see you there in Perth this July, it is time to celebrate the scientific achievements of some of our finest microbiology graduate students. Our long association of Becton Dickinson and their generous ongoing support allows us to offer the BD ASM Travel Award on an annual basis that supports a student to attend our annual meeting. From a large number of high quality applicants, six finalists were invited to the BD Award night at the University of Sydney on March 22. Congratulations to Caitlin Abbott and Cecilia Li (The University of Sydney), Shirin Ansari, Emma Dawson, and Daniel Mediati (The University of Technology Sydney) and Grace Micali (Western Sydney University) on being selected as finalists.

We were treated to science that reflected the quality and diversity of microbiology research in our state. The talks were beautifully and professionally presented and the enthusiasm that the speakers had for the projects was clearly evident. The event was well attended (almost 40 filled the room), with an audience consisting of proud families, excited friends and glowing supervisors. We were grateful for the representation provided by Becton Dickinson, Faizz Fattah, Medical Affairs Manager, and, Damian Malone, Core Product Specialist.

As the evening drew to a close, the three judges were forced to make the difficult decision of selecting a winner, so special congratulations go to Caitlin Abbott who will present her work in Perth as the recipient of the 2016 BD ASM Student Travel Award. Owing to the exceptional quality of presentations, the ASM NSW-ACT branch was able to offer a second award to Shirin Ansari to also support her attendance at ASM Perth. Thanks to everyone who attended and cheered on the speakers.



The finalists



Caitlin Abbott and Faizz Fattah



Shirin Ansari and Slade Jensen



Australian Society for Microbiology NSW-ACT Branch

ASM NSW/ACT Annual February Meeting

by Mitchell Brown

On Monday 29th February, the ASM NSW/ACT Branch held our annual February meeting. This is a meeting designed to kick start another year packed with events for our members. This year the meeting was held at Westmead Hospital and our guest speaker was the esteemed Professor Alex Van Belkum. Around 60 people had travelled from across Sydney for the evening. The crowd was a mix of medical staff, scientists, academics and industry. As always this means there was great opportunity to mingle and network with our peers over refreshments prior to the meeting. Thanks to new local business the Forbidden Bean Café for a great job with the catering. Fed and watered, we adjourned to the lecture theatre. Alex's talk was around "Cultuomics – Phenomics – Genomics – Resistomics and The optimal pipeline for genome wide antimicrobial resistance testing" This was an exciting insight into not only some of Alex's cutting edge work in this area, but also a wonderful and broad overview of some of the work being done by others in this space. We are all now a little more aware of the possibilities these new technologies can bring to antimicrobial testing in our microbiology labs now in the future. The talk was well received by a keen audience. Thankyou Alex. A few more acknowledgements I must make - Thank you to bioMérieux for helping to coordinate the evening and bringing Alex to town. Thank you to the NSW/ACT branch for sponsoring the event and special mention to Kaitlin Tagg for helping me with organisation of the evening. Finally, thanks also to all those in attendance. I look forward running into you all at many more events throughout 2016.

Position Vacant



Lecturer/Senior Lecturer - Microbiology

Job no: 550852

Work type: Continuing, Fixed Term

Location: Melbourne (Bundoora)

Categories: Academic

- 2 Positions available at Bundoora Campus specialising in Microbiology
- 1 x full-time Level B or C position (continuing) and 1 x part-time (0.7) Level B position (fixed term contract until 31 December 2020)
- \$85,125 - \$120,233 + up to 17% superannuation pro rata.

In this role

Both positions will be within the Discipline of Microbiology in the Department of Physiology, Anatomy & Microbiology in the School of Life Sciences. We are seeking to make one appointment in each of the following areas:

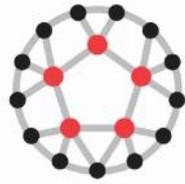
- An outstanding eukaryotic microbiologist working in the broad area of eukaryotic molecular genetics and the molecular cell biology of genetic or infectious disease.
- An outstanding bacteriologist working in the broad area of health and disease who studies host-microbe interactions or bacterial pathogenesis.

Your research interests will need to be in either or both of the University's Research Focus Areas "Understanding Disease" and "Securing Food, Water and the Environment".

See <http://www.latrobe.edu.au/jobs> for more information

Closes 5th April, 2016

Position Vacant



RCPAQAP
RCPA Quality Assurance Programs

Scientist Serology and Immunology

An opportunity exists to help drive best practice in Serology and Immunology External Quality Assurance provision.

RCPA Quality Assurance Programs Pty Ltd is seeking to recruit a suitably qualified Scientist with current infectious disease serology and/or immunology qualifications and experience to join the Serology and Immunology business units.

The RCQAQAP Serology and Immunology business units provide programs to assess the diagnostic proficiency of infectious disease serology and immunology laboratories in Australia and world-wide. The RCQAQAP also serves as a resource to scientists and pathologists for the purpose of continuing education.

In collaboration with managers, senior scientists, scientists and other team members, the primary functions of the role include the preparation of proficiency testing materials; laboratory testing; performance of administrative tasks including data entry, report preparation and review in addition to assisting with survey packing and dispatch. Whilst ensuring the efficient and cost-effective provision of services within the business unit, in compliance with NATA Accreditation Requirements for Proficiency Testing Scheme Providers (ISO/IEC 17043).

The position is located in Sydney. The office is within walking distance of the train station and the Pacific Highway.

The position is a full-time appointment comprising 37.5 hours per week. The salary will depend upon qualifications and experience.

Applicants will need to address the selection criteria summarised below in their application:

Only those applicants shortlisted for interview shall be contacted.

Selection Criteria:

Essential

1. Tertiary qualifications in an appropriate medical science degree, with a minimum of 3 years recent experience working in a diagnostic serology and/or immunology laboratory.
2. Willingness to handle potentially infectious survey material according to company standard operating procedures and WHS guidelines.
3. Experience in data entry and use of Customer Relationship Management systems.
4. Proven interest in development/improvement of diagnostic laboratory testing and procedures.
5. Proven record of attention to detail with a strong emphasis on accuracy.
6. Demonstrated verbal and written communication skills.
7. Intermediate experience in Microsoft office software, particularly MS Word, MS Excel and MS Access and web-based databases.
8. Proven ability to work both as a team member and independently on projects. Ability to work in a cross-functional environment and multi task.
9. Demonstrated commitment to the principles and practice of EEO, Ethical Conduct, diversity and WHS.

Desirable

1. Demonstrated experience in laboratory quality systems, NATA accreditation and general quality management principles.
2. Experience in statistical analysis.
3. Experience in conference presentations.
4. Experience in policy and procedural documentation.
5. Membership of an appropriate industry or professional organisation (e.g. AIMS, ASM).

Applications close on 15th April 2016.

All applications to be made via Seek:

<http://www.seek.com.au/Job/30602232>

If selected for interview, interviews will be conducted in early May 2016.

RCQAQAP Pty Ltd is committed to providing our staff with a safe workplace and require all staff to demonstrate compliance with the NSW Health policy [Occupational Assessment, Screening and Vaccination Against Specified Infectious Diseases \(PD2011_005\)](#), and any other relevant policies prior to employment.

For a confidential discussion and a copy of the full Position Description contact the Immunology Program Manager and Business Development Officer RCQAQAP, Louise Wienholt, +612 9045 6000, or louise.wienholt@rcpaqap.com.au





Australian Society for Microbiology NSW-ACT Branch

The Joe Levey Graduate Award

Award: Registration fees and budget travel and accommodation costs (up to a total value of \$ 50/day) to attend the Australian Society for Microbiology Annual Scientific Meeting.

Payment will be made on presentation of tax invoices or receipts

Eligibility: All graduates of less than five years, and currently working in microbiology, are invited to apply for the Award. Applicant should not be a fulltime student and must be a resident of NSW/ACT at time of application

Membership Status: All members of ASM except student members. Applicants must have been members of the Australian Society for Microbiology for at least 12 months before the Award application is submitted.

Criteria:

1. A one page essay explaining their wish to attend the ASM Annual Scientific Meeting, and indicating what they hope to gain from the experience.
2. A one page account covering their academic achievements and work experience to date.
3. Two referee's reports (to be submitted directly) supporting application for the Award. It is the responsibility of the applicant to ensure that their referees submit the reports to the ASM NSW-ACT Branch committee by the closing date.
4. Evidence of their involvement in NSW-ACT branch activities since they have been members. This could include attendance at scientific meetings, seminars, social events, newsletter contributions or assistance in the organisation of branch events. Applicants with this record will be preferred, but not exclusively (supervisor's written approval required if applicable).
5. Recipient is required to write a brief report (1 page or 600 words) that summarises their project or the proceedings of any one session they attended at the ASM annual scientific meeting (report will be published in the ASM NSW branch newsletter). The report should be submitted no later than 4 weeks after the conference end date for publication in the ASM NSW -ACT Branch newsletter.

Closing Date: 31st March 2016

Email applications to:

Tim Newsome, Secretary NSW-ACT Branch
 Australian Society for Microbiology
 Email: tim.newsome@sydney.edu.au
 Tel (02) 9351 2907



Australian Society for Microbiology NSW-ACT Branch

ASM NSW-ACT Branch Members Service Award

Award: The award is for travel to a scientific meeting, conference or visit to an institution within Australia for the scientific advancement of the applicant. The award will consist of budget travel and accommodation (up to \$50 per day for a maximum of 5 days). Payment will be made on presentation of tax invoices or receipts.

Eligibility: Applicants must have been members of the NSW-ACT branch of the Australian Society for Microbiology for at least 12 months before the Award application is submitted.

Criteria:

1. 40% of the award weighting will be based on the applicant's promotion of the field of microbiology in Australia while based in NSW-ACT. This contribution may be assessed by publication record, community contribution or by a combination of both.
2. 40% of the weighting will be on the basis of contribution to the activities of the NSW-ACT branch. This may be through the organisation of branch activities, SIG activities or other similar contributions. A preference will be given to applicants whose contribution has been in the last five years.
3. 20% of the weighting will be based on the proposed, the justification of the travel involved, the benefits to the applicant and/or their organisation, and the benefit to microbiology in NSW-ACT.
 (supervisor's written approval required if applicable)

Closing Date: 31st March 2016

Email applications to:

Tim Newsome, Secretary NSW-ACT Branch
 Australian Society for Microbiology
 Email: tim.newsome@sydney.edu.au
 Tel (02) 9351 2907



Australian Society for Microbiology NSW-ACT Branch

ASM Honours Student Prize

Award: \$500.00 towards a Microbiology conference or meeting within the following 12 months. Payment will be made on presentation of tax invoices or receipts

Eligibility: Student member of ASM (studying in NSW/ACT). Applications must be made during the student's Honours year. It is also acceptable for applicant to have completed Honours in June of the previous year.

Application process:

A written application comprising the following (3 parts) should be submitted:

Part 1 – About the student

Approximately 250 words.

Should include:

- How or why they got into microbiology, what they like about microbiology
- Information on what they want to do after completing Hons
- Where they see themselves in five years

Part 2 – Summary of the student's project or a copy of the abstract submitted to the conference

Approximately 500 words. One extra page for graphs, figures or tables

Should be written at a level that could be understood by a general microbiologist.

Should include

- An interesting title
- Clear aims of their project
- Relevant background
- A summary of results
- The implications of their findings
- Suggestions for follow up

Part 3 – Two referee's reports (to be submitted directly to NSW-ACT branch) supporting application for the Award. It is the responsibility of the applicant to ensure that their referees submit the reports to the ASM NSW Branch committee by the closing date

One must be from the student's supervisor and the other can be independent

Closing Date: 2nd April 2016

Email applications to:

Tim Newsome, Secretary NSW-ACT Branch
 Australian Society for Microbiology
 Email: tim.newsome@sydney.edu.au
 Tel (02) 9351 2907



Australian Society for Microbiology NSW-ACT Branch

ASM NSW-ACT Branch Postdoctoral Award

Award: The award is a contribution of up to \$1000 (towards registration fees/ airfares/accommodation**) to assist the recipient to attend the ASM annual national conference, or any other conference or workshop (national or international) with a microbiology component, in the same year as the award is given.

****Note:** *Payment will be made on presentation of tax invoices or receipts*

Eligibility: Postdoctoral researchers in microbiology of no more than 5 years postdoctoral experience. Applicant must be a resident of NSW/ACT at time of application.

Membership Status: Applicants must have been members of the Australian Society for Microbiology for at least 12 months before the Award application is submitted.

Criteria:

Applicants must submit an application consisting of the following:

1. A lay description of their project suitable for ASM NSW-ACT media releases and website of up to 100 words.
2. A two page description of the applicant's project and their major scientific contributions to date (including peer reviewed publications, conference presentations, etc.).
3. Details of the conference they wish to attend, including how attendance will benefit their career (1 page).
4. A copy of the conference abstract.
5. Two referee's reports (to be submitted directly) supporting application for the Award; one should be from the applicant's supervisor. It is the responsibility of the applicant to ensure that their referees submit the reports to the ASM NSW-ACT Branch committee by the closing date.
6. The award recipient is expected to write a lead article to be published in Syntrophy – the article must be submitted no later than 4 weeks after the conference.

Closing Date: 30th April 2016

Email applications to:

Tim Newsome, Secretary NSW-ACT Branch
 Australian Society for Microbiology
 Email: tim.newsome@sydney.edu.au
 Tel (02) 9351 2907



Infection Control

Infection Control is becoming more important as new strains of bacteria evolve and become resistant to conventional sterilisation measures. This affects both Clinical and Industrial environments and this seminar will address both arenas allowing practitioners to cross learn the challenges. We have four speakers in the area of infection control. A/Prof Slade Jensen will discuss how bacterial whole genome sequencing is used to direct intervention strategies in an ICU outbreak setting. Dr Trevor Glasbey will reveal the latest at the industrial front in the development of disinfectants. Julie Markham and her PhD Student, Jessica Knight, will present their current research being conducted at Western Sydney University for the determination of the role of biofilms, the effective treatments for biofilms, on environmental surfaces in hospitals and in the transmission of multi-drug resistant bacteria.

Please book early to attend this highly informative seminar.

Date: Wednesday 13th April 2016
Venue: Main Auditorium, Canterbury Hurlstone Park RSL
 20-26 Canterbury Rd, Hurlstone Park.

PROGRAMME

5:00 pm - 5:45 pm	Registration
5:45pm - 6:00 pm	Introduction: Jennifer Wan
6:00 pm - 6:25 pm	A/Prof Slade Jensen, School of Medicine - Western Sydney University - The role of genomics in outbreak investigation
6:25 pm - 6:50 pm	Dr Trevor Glasbey – Research and Intellectual Property Manager, Whiteley Corporation - The role of industry in the development of disinfectants
6:50 pm – 7:15 pm	Julie Markham – Lecturer & Academic Course Advisor, Western Sydney University and Jessica Knight, PhD Student - Significance and Control of Biofilms
7:15 pm – 7:30 pm	Question Time followed by Dinner

Cost: \$75.00 per person. **Cheques payable to CAPSIG - NSW.** (*CAPSIG is a non-profit group with annual turn-over less than the statutory limit and hence GST is not applicable*)

RSVP: Friday 8th April 2016

Bookings & Enquiries: Ms. Melissa J BOURKE on 0416 036 443
 cheques and booking details to be sent to:
 Ms.Melissa J BOURKE,
 PO Box 432, Alexandria NSW 1435
 E-mail: melissa.bourke@biomerieux.com or info@capsig.com.au

This seminar is proudly sponsored by:





BOOKING FORM

Names(s):	Company:	Address:	Email:	Phone:

TERMS AND CONDITIONS

1. Prior booking and payment in full are essential for seminar attendance
2. Payment must be made by the RSVP date of the seminar.
3. Payment must be in cheque or direct deposit (make sure you include your company/ name in the transaction).
4. All cheques must be made payable to CAPSIG NSW.
5. Direct deposit details listed below.
6. Cancellations must be made by the RSVP date, otherwise full cost of the seminar must be paid.
7. CAPSIG NSW is a non-profit group with an annual turn-over less than the statutory limit and hence GST is not applicable or charged. It is a Special Interest Group of the Australian Society for Microbiology Inc.
8. If you require an invoice please email Melissa at info@capsig.com.au or melissa.bourke@biomerieux.com

BANKING DETAILS

Account Name: CAPSIG NSW
 Account No. 043238414
 BSB: 112-879
 Bank: St George



Participation & Partnership in Marine Biotechnology

Seeding the Blue Bioeconomy

1st Australia New Zealand

Marine Biotechnology Society
Symposium

Adelaide, Australia 14-15 April 2016

Topics will include – translational technologies | marine functional foods
marine agri-chemistry | bioprocesses | bioproducts | biofuels | bioremediation
training and education | science underpinning biotechnology
biotechnology in aquaculture | marine drug discovery | policy | & more

Special Session

International
Blue Bioeconomy
Industry Forum

Abstracts accepted from

27 January 2016 (see next page for
call for abstracts)

Registrations open

15 February 2016

Abstracts close

1 March 2016



Cost (AUD) 2 days | 1 day

Members \$250 | \$130

Others \$300 | \$160

Member students \$110 | \$60

Other students \$130 | \$90

Contact us

marine.bioproducts@flinders.edu.au

Website - Program & Venue Information

<http://www.flinders.edu.au/medicine/sites/marine-bioproducts/network/anzmbs-symposium-april-2016.cfm>

INVITATION

Marine Biotechnology is part of Australia and New Zealand's national marine science plans and is tipped to contribute significantly to a growing marine economy worth more than \$100 billion in this region within the next ten years. We invite you to present your research and product outcomes and hear about latest industry strategy and needs.

The program includes an International Blue Bioeconomy Industry Forum where you can interact with industry representatives and hear about research developments from around the world. Together we look forward to welcoming you to Adelaide in April 2016.

Professor Wei Zhang, President
Professor Chris Battershill, Vice President
Australia New Zealand Marine Biotechnology Society





3-6 July 2016

PERTH CONVENTION
& EXHIBITION CENTRE

NEW FRONTIERS

Invited Speakers



Professor Peter Hawkey
University of Birmingham
*Nosocomial infection control
and antibiotic resistance*



Professor Anna Durbin
Johns Hopkins
Dengue and vaccines



Assoc Prof Susan Lynch
University of California San Francisco
*Colitis, Crohn's disease & the
microbiome*



Dr Brian Conlon
Northeastern University,
Boston
Drug discovery in soil bacteria



Professor Dan Andersson
Uppsala University
*Environmental pollution by
antibiotics and its role in the
evolution of resistance*



Professor Victor Nizet
University of California San
Diego
*Group A Streptococcal Virulence
factors*

IMPORTANT DATES

Registration opens NOW!
Oral Abstract deadline April 1st

Visit the conference website for details on the
scientific program, awards, new initiatives,
student activities, workshops and more!

2016 Rubbo Oration

Professor Anne Kelso
CEO NHMRC and WHO
Collaborating Centre for
Reference and Research
on Influenza



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www.theasm.org.au

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