



# Newsletter



# PRESIDENT'S REPORT

NEW ANZACA LOGO Launched At Anzaca 2016

Welcome to the first newsletter of 2017 and also my first newsletter as President of ANZACA.

I would like to commence this report by thanking a number of people. Firstly, Phil Blyth for his 4 years as President of ANZACA. Phil's relaxed leadership style belies the growth in membership and the size of our annual conference during this period and he always seems to get things done with a smile on his face and perhaps the odd dash of eccentricity! Phil will not be escaping the workload completely though - he is still our resident webmaster and serves on council as past-President. I would also like to thank the ANZACA Council for the support they have given me and particularly their encouragement in asking me to stand for the role of President. I have always enjoyed the friendly and supportive environment of the ANZACA conferences and hope to maintain this collegial environment in the future.

As our conference continues to grow, we have recently taken steps to help to support the members on conference organizing committees that do a massive amount of work in running the conference each year and also to continue to maintain the friendly, collegial atmosphere that we all enjoy. We have set up a subcommittee of council that will assist local organizing committees each year, in part

by ensuring that 'corporate knowledge' is passed from one committee to the next each year. We have also instituted a code of conduct for delegates to outline expected academic and personal behaviours at conference - thanks to AAA for allowing us to largely plagiarise their code of conduct! I know many of you are probably buried at the moment in the myriad tasks of teaching, but start planning your abstracts (whether lab-based or educational research) for ANZACA 2017 in Auckland.

Finally, I would like to thank Alexandra Webb and Jamie Chapman who do a great job in preparing the newsletter (amongst many other things).

#### **Dr Rodney Green**

#### ANZACA 2017 Conference 4th-6th December 2017 University of Auckland, Medical School (Grafton Campus) Auckland, New Zealand



# ANZACA 2016 Conference

### Medical School, Australian National University, Canberra, ACT, Australia

It was a pleasure to welcome 102 registrants to the Australian National University Medical School in Canberra, Australia, 7th-9th December for the ANZACA 2016 'Artful Anatomy' conference.

After lunch on Wednesday, 28 delegates attended the stimulating hands-on pre-conference workshops delivered by A/Prof Beth Beckmann 'Making your Teaching Count: Evidence for Promotion, Jobs & Awards' and Dr Sarah Simblet 'Occupying Our Bones'. The day concluded with a journey over the Commonwealth Bridge spanning Lake Burley Griffin to attend an 'Anatomy and Art Tour' at the National Gallery of Australia. Prof Imogen Mitchell, Dean of the ANU Medical School, delivered a short welcome speech before everyone enjoyed the opportunity to catch up with old and new friends at the Welcome Cocktail Reception held in the beautiful National Gallery of Australia Sculpture Garden.

The conference commenced with a keynote presentation by Prof Richard Drake 'Anatomy Education: Today & Tomorrow' followed by a stimulating range of oral presentations



focussed on anatomy education research. Dr Sarah Simblet's keynote presentation 'To See, Record And Question: The Meaning And Usefulness Of Art In Anatomical Teaching' was a highlight of the first day. Sarah's presentation was a stimulating precursor to the 'Art And Anatomy' symposium delivered by ANZACA members from four different Australian and New Zealand institutions who shared the diverse approaches by which they integrate



anatomy and art. Thank you to the Gold Sponsors: 3D4Medical, AD Instruments, BodyViz and Mentone who conducted workshops in the afternoon to

demonstrate their anatomical and educational resources. The evening was spent socialising at the Conference Dinner held at the National Museum of Australia. Although a brief drizzle of rain prevented us from enjoying the outside deck overlooking Lake Burley Griffin, the Saw Doctor's Wagon and Percival Gull Monoplane in the foyer attracted much interest.

The final day of the program was focussed on clinical anatomy research oral presentations together with insightful workshops delivered by Prof Drake and Dr Simblet. In addition, four ANZACA members contributed to a 'Sharing Educational Innovations - Rapid Fire' session. This provided an opportunity for ANZACA members to share elements of their teaching practice using Twitter, Virtual Reality and the flipped classroom.

Thank you very much to our team of volunteer ANU Medical School anatomy students & interns who worked so hard with us to ensure the conference ran smoothly: Aicee Calma, Alexandru Colibaba, Fiona D'Mello, Vladimir Marinov, Bryn Stamford & Anatomy Services Specialist Hannah Lewis.

#### Alexandra Webb and Krisztina Valter **ANZACA 2016 Conference Organisers**





# **ANZACA 2016 Conference**

### Medical School, Australian National University, Canberra, ACT, Australia

The functional eye model poster presentation by ANZACA member Dr Manisha Dayal attracted a lot of attention during the conference. Manisha and Alex Wood have kindly provided an article detailing the model to share with ANZACA colleagues.

#### A Functional Eye Model: Can It Replace Current Anatomical Eye Models? Alex Wood and Manisha R Dayal. Western Sydney University, New South Wales, Australia

As the timeframe in which medical students are expected to understand and apply anatomical knowledge changes in accordance with the dynamic nature of our society, the implementation of anatomical resources has similarly changed. From the traditionalistic methods of learning such as cadaveric dissections and anatomical models to the more recently implemented resources of computer-based simulations and body painting, the means by which anatomy is taught has never been more varied. However, the range of physical models which are functional by design is limited (defined as a model that is able to move in accordance with its bodily-function). Considering the eye specifically, only one functional eye model has been developed in relation to rotational movements ie. the model produced by Williams (1965). Although no study has been conducted comparing the efficacy of functional vs. non-functional models, a study by Khot et al. (2013) in which plastic models were compared against 2D images and 3D computer models demonstrated that participants who used the plastic model scored significantly higher than either of the other two groups when answering anatomy-related questions. It could therefore be hypothesised that a model with the ability to move in accordance with its bodily-function could provide an additional means of learning the anatomy of the human body where other resources cannot. Using Williams' (1965) model as a guide, a step-by-step procedure for the development of a functional model of the eye was established and the model ultimately produced. The final product consisted of a rubber ball and red-coloured binding for the eyeball and the extraocular muscles respectively. To enhance the model's anatomical accuracy, the four recti muscles were attached to a common origin (simulating the common tendinous ring) and the superior oblique muscle was wound around a trochlea-like apparatus before passing posteriorly. The functionality of the model, on the other hand, was simplified to the greatest extent whilst remaining true to the physiology of the eye. To understand the various movements, the participant pulls on one of the lengths of material corresponding to the desired eye muscle which in turn causes the ball to rotate accordingly. The model was also designed in a way which considered the agonistic/antagonistic relationship of paired muscles, allowing the "activated" muscle to move posteriorly whilst the opposing muscle moves anteriorly. This element of design inadvertently provided greater fluidity in movement and therefore better understanding of the model mechanisms.

In much the same way that different diagnostic scans are used to observe different bodily materials, functional models may not necessarily replace the range of anatomical resources which exist, but it is hoped that models such as this will instead provide insight into an alternative aspect of anatomical learning which is yet to be considered.

For more information on building a similar model, please contact Manisha Dayal at M.Dayal@westernsydney.edu.au.



### Teaching Excellence Award Presented to ANZACA Council Member in 2016

**Patrick de Permentier,** who was an ANZACA council member from 2009 until 2016, was recognized for his teaching excellence by being presented with an **"Outstanding Contributions to Student Learning"** award by the Faculty of Medicine at the University of New South Wales.

Patrick is a Lecturer in the Department of Anatomy, School of Medical Sciences, Faculty of Medicine, UNSW and his main teaching is in the discipline of Histology.

The award recognized his sustained contribution to student learning over 25 years, and included developing innovative teaching strategies to enhance student learning in Histology. "Students in my courses come from diverse backgrounds including medicine, medical science, science, and biomedical engineering. My strategies to engage students included developing resources based on virtual microscopy, constructing adaptive tutorials and blended lectures, developing interactive image-based teaching in real-time in practicals and in lectures via student mobile devices and providing on-line practical exams using adaptive tutorial technology". Patrick presents and publishes these teaching strategies at local (UNSW Learning & Teaching Forums), national and international conferences. Previously, Patrick's teaching ability was recognized by "Teaching Excellence" (2002, 2006) and "Development in Cross-Disciplinary Teaching" (2005) awards presented by the School of Medical Sciences, UNSW and an "Innovation in Learning and Teaching" award (2008) presented by the Faculty of Medicine, UNSW.



#### ANZACA 2016 CONFERENCE AWARD WINNERS



BEST CLINICAL ANATOMY RESEARCH ORAL PRESENTATION Mateusz Holda

Atrial Septal Pouch – Morphology, Imaging And Clinical Significance

AD INSTRUMENTS BEST EDUCATIONAL RESEARCH ORAL PRESENTATION Michelle Lazarus

Vertical Integration Of Anatomy: Achieving The Desired Outcomes?

**BEST CLINICAL ANATOMY RESEARCH POSTER** Vivek Perumal

Clinical Anatomy Of The Ligament Of The Head Of Femur

BEST EDUCATIONAL RESEARCH POSTER Rachel Catterson

Virtual Ultrasound For Anatomy: Exploring The Potential Of Second Life For University Education

#### **PEOPLE'S CHOICE AWARDS**



**BEST ORAL PRESENTATION THURSDAY** Nicolette Birbara

3D Modelling And Printing For Mitral Valve Surgical Planning

BEST ORAL PRESENTATION FRIDAY Christina Yoo

Paediatric Regional Nerve Block: A Review Of Age-Related Neurovascular Relations To Anatomical Landmarks

BEST RESEARCH POSTER Hiroo Suami

The Lymphosome Concept: Comparative Anatomical Study For A Better Understanding Of The Sentinel Nodes

BEST EDUCATION POSTER Bryn Stamford

Iodine Staining And Computed Tomography In The Creation Of A Three-dimensional Model Of The Human Neck Muscles, A Feasability Study

### PAPERS PUBLISHED BY ANZACA MEMBERS IN 2017

Au J, Webb AL, Buirski G, Smith PN, Pickering MR, Perriman DM. Anatomic variations of levator scapulae in a normal cohort: an MRI study. Surg Radiol Anat. 2017 39(3):337-343

Kennedy MS, Nicholson HD, Woodley SJ. Clinical anatomy of the subacromial and related shoulder bursae: A review of the literature. Clin Anat. 2017 30(2):213-226

Shen XH, Xue HD, Chen Y, Wang M, Mirjalili SA, Zhang ZH, Ma C. A reassessment of cervical surface anatomy via CT scan in an adult population. Clin Anat. 2017 30(3):330-335

Jones DG, King MR. Maintaining the anonymity of cadavers in medical education: Historic relic or educational and ethical necessity? Anat Sci Educ. 2017 10(1):87-97

Thank you to ANZACA members who provided information about their publications in 2017. If you have published a journal article on clinical anatomy or anatomy education during 2017 that would be of interest to the ANZACA membership, please send the reference details and PubMed URL to Dr Alexandra Webb or Dr Jamie Chapman



# Calendar

- Australian and New Zealand Association of Clinical Anastomists (ANZACA) Conference. Auckland, New Zealand. 4-6 December, 2017
- The British Association of Clinical Anatomists (BACA) and European Association of Clinical Anatomists (EACA) Summer Meeting. Warwick University 4-7 July, 2017
- The American Association of Clinical Anatomists (AACA).
   Minneapolis, U.S. 17-21 July, 2017
- The Microscience Microscopy Congress 2017. Manchester, UK. 3-6 July 2017
- Anatomical Society & AAA
  Summer Conference. Galway,
  Ireland. 27-29 June 2017
- ISCAA World Congress. Innsbruck, Austria. 9-12 September 2017

The new ANZACA logo was launched at the ANZACA 2016 conference at the ANU Medical School in Canberra. Thank you to Stephanie Woodley who coordinated the process of creating a new logo.

#### **INVITATION TO PARTICIPATE IN A RESEARCH PROJECT**

My name is Sara Sulaiman and I am the senior lecturer in anatomy at Northumbria University, UK. My Colleague, Dr James Coey from St. George's International School of Medicine, Grenada, and I are conducting a project looking into the "perceptions of anatomists/professional anatomy educators on the impact of utilizing different tools and strategies on the efficiency of teaching anatomy".

With the many challenges and educational options facing medical schools, understanding and better appreciating the effect of each learning tool and educational strategy becomes vital for facilitating an anatomy curriculum that is designed to fit the need of medical practice. The overarching aim of this project is to look into anatomy educators' views on body donation and the use of cadavers; and to investigate anatomists' perception and attitude toward the different tools/strategies used in the anatomy curriculum.

We would like to invite you to take part in our study by answering the survey:

#### http://sgu.co1.qualtrics.com/SE/?SID=SV\_cBfRkjYaBs4QuQl

The survey will take about 10-15 minutes to complete and all data will be completely anonymous. Taking part in this survey is completely voluntary; however, if you like to be considered for one of the **three 100£ worth Amazon vouchers**, please leave your email address at the end. Please feel free to distribute this email to anyone in your department that you think may be interested.

## **IFAA Update**

It is my pleasure to inform you that Prof. Beverley Kramer, President of the IFAA, was recently selected as a Fellow of the American Association of Anatomists (AAA). The rank of Fellow of the AAA is designed to honor distinguished members who have demonstrated excellence in science and in their overall contributions to the anatomical sciences. Please join me in congratulating Prof. Kramer for this distinction.

#### **Stephen Carmichael** Vice President, IFAA

#### The Changing Face of FIPAT: Web publication of Terminologia Embryologica and Terminologia Neuroanatomica

FIPAT is pleased to announce that the latest version of *Terminologia Embryologica* [TE2] was published on February 21. Publication of Terminologia Neuroanatomica followed on February 23. Both are available on the open part of the Dalhousie section of the FIPAT website [FIPAT.library.dal.ca]. Both represent the official terminologies of the anatomical profession.

In the lead-up to this, the then current versions of Terminologia Anatomica [TA], Terminologia Embryologica[TE] and Terminologia Neuroanatomica[TNA] were made available to the IFAA member societies by means of a specialised Internet DropBox in early 2016. Responses were incorporated and TA, TNA and TE were all further reviewed and developed extensively.

Website publication represents a major milestone in the progress and development of FIPAT. Replacement of the book format by electronic publication is a central element of FIPAT strategy. Inevitably, the book format, while elegant and authoritative, entailed very long delays in revision and updating. By contrast, electronic publication has the key advantages of providing wide availability and of enabling responsiveness to feedback on terminology in close to real time. It enables frequent revision and updating. FIPAT organisation is geared to react rapidly to feedback, comment, criticisms and proposals through its structure; a specific working group is responsible for each Terminologia.

TE2 and TNA will be closely followed by TA2. The published terminologies are licensed under a Creative Commons International Licence of the CC BY-ND form.

#### John Fraher Chair, FIPAT

#### **KEEP IN TOUCH WITH** ANZACA COLLEAGUES **VIA THE ANZACA**

- Website
- Facebook
- Twitter

# **NEWSLETTER EDITORS**



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NEXTNEWSLETTER

Email any reports, articles or photos for the next newsletter (to be distributed in July2017) to Dr Alexandra Webb or Dr Jamle Chapman