



**NEWSLETTER OF THE  
ANATOMICAL SOCIETY OF SOUTHERN AFRICA  
2014**

**EDITOR'S CORNER**

And so another year draws to an end and what a year it has been?!?. As reflected in this newsletter, a year filled with loss but also numerous awards and achievements.

Congratulations to all on your amazing achievements. Compliments also has to go to the organizing committee of ASSA 2014 for an amazing conference and best of luck to the organizing committee from Medunsa with all the planning for ASSA 2015 – we look forward to the “stimulating educational program, in an awe-inspiring setting, combined with a fun-filled team-building adventure session” ☺

The ASSA community also thanks Prof Graham Louw for his enormous (continuous) contributions to the Society, as he steps down as the President of the Anatomical Society of Southern Africa and takes on the role of Treasurer. We would also like to welcome Prof Steyn as the new President of ASSA and wish her all be best for her tenure. Lastly I would like to thank everyone who contributed to this newsletter. A special word of thanks to Mrs Jennefer Hesk and Mr Leon du Plessis for their assistance with editing, formatting and the layout of the newsletter!

Best wishes,

*Desiré Brits*

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Obituary – Prof Jules Kieser

## MESSAGE FROM THE PRESIDENT OF ASSA

Another year has rushed by and it is difficult to believe that we are again at that time of the year where we are starting to look forward to the summer holidays. As always, this has been a year filled with many successes, good and bad news and challenges.

We were very pleased with the election of Prof Beverley Kramer as president of the IFAA at the recent meeting in China. With her as president and Prof Stephen Carmichael as vice-president, South Africa's interests are certainly very well represented at the IFAA. We are looking forward to having closer ties with the IFAA in the years to come.

The death of Prof Jules Kieser from New Zealand came as a great shock to all of us who knew him. Jules was an exceptional person, and his enthusiasm and energy left a lasting impression on us all. Beverley Kramer compiled an obituary which has been submitted to Plexus. An obituary is also published in this newsletter. Jules will be sorely missed.

The ASSA Council again had a "virtual" meeting by telecon in October and despite some technical glitches, this seems to be the way to go for the future. Hopefully it will get easier once we all get more experienced at this! One of the major issues which dominated this year's discussions was the shortage of cadaver material that seems to weigh heavily on everyone's mind. With increased demands, escalating costs and more students, this is likely to remain a major concern that needs to be addressed. ASSA Council discussed this matter at length and is looking at various ways to escalate this matter to try and arrive at possible solutions. The revamping of the ASSA Constitution is

now nearly completed and awaits final approval. Thank you to Elaine Swanepoel for spearheading this.

Just a reminder that the 2015 ASSA conference will be held in Paris (Free State!) from 9 – 13 May. Medunsa is planning an exciting conference, and from what we hear we can also look forward to some R & R during the conference. As usual, there will be special sessions for Education, CAIG and FAIG.

For those of you lucky enough to have a vacation to look forward to – we wish you a safe journey. I hope you all have a peaceful time with enough rest and we look forward to see everyone next year in Parys.



With best wishes,

*Maryna Steyn*

## 42<sup>nd</sup> ANNUAL CONFERENCE OF THE ANATOMICAL SOCIETY OF SOUTHERN AFRICA (ASSA 2014)



*ASSA 2014, STIAS, University of Stellenbosch, Stellenbosch*

Our Division hosted the ASSA 2014 “Cultivated Anatomy” conference at STIAS in Stellenbosch from 13-16 April 2014. It was a pleasure to receive delegates from across South Africa, Namibia, Nigeria, the USA and Europe and to welcome everyone to the historic and beautiful town of Stellenbosch. Luckily the weather played along and many delegates enjoyed visiting the beautiful wine farms in the vicinity to sample and buy some of the best wines in the world! As always, the conference was a great place to meet up with colleagues, discuss our research, get inspired with new ideas and also, simply to visit together.

This year we organized three pre-conference symposia on Sunday 13 April. The first symposium was the Forensic Anthropology Interest Group (FAIG) which had four plenary speakers from various backgrounds including a forensic artist, an archaeologist, a forensic anthropologists and a speaker from the Missing Persons Task Team National Prosecuting Authority (NPA). The second symposium was the Clinical Anatomy Interest Group (CAIG) symposium. Speakers included

clinicians (specialists) ranging from a gastroenterologist (from the Mayo Clinic) to orthopaedic surgeons who illustrated the importance of clinical anatomical landmarks used in medical practice. A third parallel symposium on Cell and Developmental Biology was organized by colleagues from Human Biology at the University of Cape Town (UCT). Prof Paul van Helden, TB specialist and Head of Department of Biomedical Sciences, Stellenbosch University, gave the prestigious Thomson-Stibbe lecture at the opening of the conference entitled “A molecular dissection of TB in South Africa”. This talk focussed on the vast problem of TB in the world and particularly in the Western Cape. This was of particular interest as TB research on cadavers is currently underway in our department. The day ended with a scrumptious cocktail which was enjoyed by all.

The first and second days of the conference were dedicated mainly to clinical anatomy, anthropology and cell biology oral and poster sessions. The anthropology sessions were

very informative and covered topics such as disease and metabolic disorders, trauma analysis, ancient DNA analysis, age and sex estimation, and epigenetic traits. There were no less than three clinical anatomy oral sessions and one poster session where delegates presented on a wide variety of subjects with clinical relevance. Cell biology formed a smaller segment but a wide range of interesting topics were covered.

This year we included a Technical workshop, in the form of a round table discussion, organized and chaired by Ms. Mandi Alblas. Technical and ethical problems around dealing with cadavers were highlighted and discussed by staff from the medical faculties represented at the conference. The discussion was well attended by not only technical staff but also academic staff members. We realized that all institutions essentially experience the same problems with acquiring cadavers, record keeping of cadavers and wet specimen storage and preparation as well as post-dissection maceration, de-fatting and preparation of skeletal material and ways forward were discussed. It was important to have this communication between the departments in order for us to support and help each other in our endeavours to provide excellent cadaver material for student training.

The last day of the conference was devoted to Medical Education in Anatomical Sciences. These sessions were well attended as usual, as no matter which component of anatomy one is involved in, all require teaching of students. Prof Nirusha Lachman from Mayo Clinic, USA chaired both the oral and poster sessions and she gave very good advice on ways forward.



*Pictured are delegates attending the Technical Workshop*

Students and staff enjoyed our general knowledge quiz and the conference dinner was great fun with good food and wines. Prof Graham Louw (the outgoing ASSA president) was the MC and, as usual, very entertaining in his role as “giver of silly anatomy prizes”! The latter is always enjoyed by all, especially those “unlucky” enough to receive a prize! Some of us will all be reading Pieter Dirk Uys books for the foreseeable future! Thanks Graham!



*Delegates enjoying the lively general knowledge quiz*

We would like to thank each attending delegate for their scientific contributions and enthusiastic participation which contributed to make the ASSA 2014 Conference a memorable one!

*Sanet Kotzé*

# 43<sup>rd</sup> ANNUAL CONFERENCE OF THE ANATOMICAL SOCIETY OF SOUTHERN AFRICA (ASSA 2015)



We are excited to invite you to join us at Khaya iBhubesi Conference Venue, at Parys, Free State, from Saturday 9<sup>th</sup> of May until Wednesday the 13<sup>th</sup> of May 2015. The 43<sup>rd</sup> Annual Conference of the Anatomical Society of Southern Africa (ASSA) is to be hosted by the Department of Anatomy, University of Limpopo (Medunsa Campus). A stimulating educational program, in an awe-inspiring setting, combined with a fun-filled team-building adventure session will ensure an exhilarating experience amongst friends and colleagues.

From a welcome cocktail where you can interact with your colleagues, to the Thomson-Stibbe lecture presented by the formidable Prof Shingai Mutambirwa, an exciting day awaits. The program includes clinical symposia, research presentations and discussions in all relevant fields of anatomy. The gala dinner and prize giving ceremony on Tuesday evening will be followed by the wrap-up comments and an AGM meeting the next morning. A first ever separate two-day technical workshop is planned for the rest of the week. This will include, amongst others, discussions and training sessions on preservation methods.



Khaya iBhubesi Conference Venue (<http://khayaconference.co.za/>)

Some important dates to note:

- Abstract submission – Closes 15 February 2015
- Early-bird registration – Closes 13 March 2015
- Final registration – Closes 17 April 2015

For further information, please visit the conference website: [www.assa2015.co.za](http://www.assa2015.co.za).

We have an exciting programme scheduled, filled with fascinating research presentations, so submit your abstracts timeously, and we will see you in the magnificent local Parys in May!

*Henry Human*

**University of Johannesburg**  
**Anatomy Section of the Department of Human Anatomy and Physiology**



*Dr Shahed Nalla (second left) co-recipient of the Science Team award at the NRF awards ceremony 2014*

The Department of Human Anatomy and Physiology is in its final stages of completion of the three new laboratories which was the result of a consolidation of all Health Science students on the Doornfontein campus in Johannesburg as from 2014. We are very privileged to have a new osteology lab which boasts brand new audio-visual equipment such as a document camera and LED monitors which facilitate the use of tablet-based multimedia applications; thereby complimenting the use of osteological specimens for the teaching of Anatomy. The new computer lab seats 67 students and incorporates Histological software, Physiology self-learning applications and access to various Anatomy databases to assist with the three-dimensional concepts in the Anatomy and Physiology fields.

The department also serviced 400 additional students and we welcomed two new Physiology staff members, Mrs Asma Kader and Mrs Pietro de Lange-Jacobs who joined the department in a full-time capacity this year.

Some news from the Anatomy section of the Department of Human Anatomy and Physiology at UJ...

The Rising Star Expedition Team, which Dr Shahed Nalla was part of, was recognised for its significant achievements, through a “Science Team Award” for the project completed under the guidance of Prof Lee Berger at the NRF Awards ceremony that was held on 11 September 2014 at the Thaba Ya Batswana Eco Hotel, Johannesburg.

Mr Nkosi Xhakaza will be attending an International conference in India in November and Mr Pilani Nkomozepi is progressing well on his PhD studies. Both Nkosi and Pilani are currently busy with a collaborative project with Appalachian State University through our visiting Professor, Prof Nathan Mowa.

We also welcome a new member to the Anatomy section of the department, Dr Erna Bruwer. Erna has a keen interest in Anatomy education and we are looking forward to her input and contributions in the department.

*Elaine Swanepoel*

## University of Limpopo – Medunsa Campus Department of Anatomy

The Department of Anatomy at the University of Limpopo (Medunsa Campus) has experienced a year of great expansion. From five new staff members to a revamped anatomy museum, the department is in a blooming phase. Plans are already in progress to incorporate the anatomical pathology museum into the “new” existing anatomy museum with state-of-the-art technology.



*Before*



*After*

*The transformation of the anatomy museum at Medunsa Campus,  
University of Limpopo*

We welcome the following staff members to the Medunsa family: Daniele Cavanagh-Kristen; Soné van der Walt and Nkhensani Mogale as lecturers while Tshepo Lelaka and Peter Dichaba form part of our technical team. Three staff members (Soné van der Walt, Lané Prigge and Johannes Manthata) have received Erasmus Mundus Scholarships and will represent our department and institution internationally during 2015 in the UK, Germany and Portugal respectively.

We look forward to an exciting year ahead which, of course, includes the hosting of the 43<sup>rd</sup> Annual Conference of the Anatomical Society of Southern Africa in Parys from 9 until 13 May 2015.

*Lané Prigge*

## University of Namibia Department of Anatomy

It's been an eventful year.

We are very glad to have the head of our department, Prof Willie Vorster, back in the saddle after a prolonged illness. Not cycling yet, but making the rest of us jump around.

Dr Quenton Wessels has left Namibia for greener pastures, all the way to the UK. He is now part of Lancaster University Medical School.

We were very happy that Prof Jan Smit could join our staff. He fell into step quickly at UNAM. He has been a member of ASSA since 1978 and he has worked in the RSA until 2002 when he moved to Northern Ireland. He started his career at Free State University in Bloemfontein. Then he worked at the MRC, Tygerberg and the University of the Western Cape. For the past twelve years he was only an “exile member” of ASSA, being employed at the Medical School of Queens University in Belfast in Northern Ireland.



We were also very happy to welcome Mr. Theuns Broekman as our technician and Mrs Mariette Broekman as our museum curator. They are both exceptional people, part of the South African anatomical milieu. By hook or by crook the UNAM anatomy museum is slowly starting up. Prof Ben Page and his team at Stellenbosch University have been a great support, helping with prosections, pathology specimens and historical medical paraphernalia. Thanks once again Prof Page for your ongoing support and effort with anatomy at UNAM.



*Standing: Mariette Broekman, Theuns Broekman, Prof Piet Hoogland, Prof Jan Smit, Reinard Henckerd, Dr Milly Morkel.  
Sitting: Dr Tuula Kaisto, Prof Willie Vorster, Dr Adele du Plessis*

### **ASSA conference 2014**

We fortunately had Easter recess and Dr Adele du Plessis and Prof Piet Hoogland represented UNAM at the conference. Prof Hoogland presented a talk about temperature regulation models in mammals. Temperature regulation of the brain and spinal cord is now an important research subject in our department.

Just like teaching anatomy, research is considered to be very important in the department. It is important for staff members, medical science and society that the department works on some research programs. The department of anatomy focusses mainly on thermoregulation of the brain and spinal cord. This program is coordinated from our department but it is a joint project with the Department of Anatomy of the Faculty of Health Sciences at the University of Stellenbosch and the Department of Neurosurgery at the University of Groningen, The Netherlands.

Our department is also involved in a project on olfactory impairment in Parkinson's disease which is a joint project with the Vrije Universiteit in Amsterdam, The Netherlands. Recently these activities resulted in the publication and submission of the following papers:

### **Conference paper 2014**

Hoogland PV, Vorster W, Wessels Q. Anatomy of brain cooling: two of a kind. 42<sup>nd</sup> conference of the Anatomical Society of Southern Africa, Stellenbosch University, Stellenbosch, South Africa, 13–16 April 2014.

### **Publications**

Correia JC, Wessels Q, Vorster W. Edinburgh, the Scottish pioneers of anatomy and their lasting influence in South Africa. *Scott Med J.* 2013, 58:246-50



Doorn KJ, Goudriaan A, Blits-Huizinga C, Bol JG, Rozemuller AJ, Hoogland PV, Lucassen PJ, Drukarch B, van de Berg WD, van Dam AM. Increased amoeboid microglial density in the olfactory bulb of Parkinson's and Alzheimer's patients. *Brain Pathol.* 2014 ,24:152-65

Hoogland PV, Vorster W, Groen RJ, Kotzé SH. Possible thermoregulatory functions of the internal vertebral venous plexus in man and various other mammals: evidence from comparative anatomical studies. *Clin Anat.* 2012, 25:452-60

Hoogland PV, Wessels Q, Vorster W, Groen RJ, Wettstein R, Greyling LM, Kotzé SH. The posterior intercostal vein: a thermoregulatory gateway to the internal vertebral venous plexus. *Clin Anat.* 2013, 26:735-40

Weise FJ, Wessels Q, Munro S, Solberg M. Using artificial passageways to facilitate the movement of wildlife on Namibian farmland. *South African Journal of Wildlife Research* 2014, 44: 161–166

Wessels Q, Hoogland PV, Vorster W. Anatomical evidence for an endocrine activity of the vomeronasal organ in humans. *Clin Anat.* 2014, 27:856-60

Wessels Q, Vorster W, Jacobson C. Anatomy education in Namibia: balancing facility design and curriculum development. *Anat Sci Educ.* 2012, 5:41-7

S Berendsen, JVM Peters, E Huisman, PV Hoogland, W Vorster. Three-dimensional reconstruction of the anterior olfactory nucleus in the human olfactory bulb and peduncle. Submitted for publication in the Argentinian journal of clinical anatomy.

### In Memoriam

Mr Johan Steyl was a lecturer in Anatomy at the Department of Basic Medical Sciences from the 1<sup>st</sup> of June 1994 until he passed away on the 31<sup>st</sup> of August 2014. He suffered from chronic illness during the past few years, but in spite of his disability, his passion for Anatomy and students could not be smothered by it. He will be missed for his inexhaustible knowledge of and love for Anatomy.



Mr J.L. Steyl (1964-2014)

The Department of Basic Medical Sciences was fortunate to host several clinical workshops during the past year.

A knee replacement and shoulder arthroscopy workshop was presented by the Department of Orthopaedic surgery on 9-10 May, and a thoracoscopy workshop was presented by the Department of Cardiothoracic Surgery from 6-8 June.

A heart sonar workshop (intra-operative echocardiography) was presented on 20 August by the Department of Anaesthesiology which appealed to both national and international specialists.

We were fortunate to still have Mr Steyl to act as subject specialist during this last workshop.

Four members of the Department attended the ASSA 2014 conference in Stellenbosch from 13–16 April 2014. They were inspired by all the many interesting presentations and had a wonderful time in the beautiful city of Stellenbosch!



From left to right: Dr S. van Zyl, Dr C. Vorster, Ms A. Nel and Dr D. Raubenheimer

*Daleen Raubenheimer*

## University of Pretoria Department of Anatomy, Faculty of Health Sciences

The Department of Anatomy, University of Pretoria has had a fruitful year and we are proud of the achievements of our members of staff.

- Prof MC Bosman was invited by the Dean of the Faculty of Medicine and Health Sciences of the University of Stellenbosch to be a member of an International panel to review the teaching and assessment of Anatomy at Stellenbosch from 2-7 November 2014.
- Prof Maryna Steyn was awarded the Spinoza Chair (A visiting professorship at the University of Amsterdam).
- The Department experienced a baby boom, with six future Anatomists being born within the past year!

### Graduations

Congratulations to the following staff members and students who graduated from the University of Pretoria in 2014:

- BSc (Hons): Ms I Choi, Ms NL Manyatsi, Ms E Rabie, Ms M Schoeman (with distinction), Ms B Smit (with distinction), Mr ZN Tshabalala (with distinction), Ms Y Wiid, Ms C Sutherland and Ms AC Anholts.
- MSc (Anatomy): Ms Anja Meyer (with distinction), Mrs Deona Botha (with distinction) and Mrs Sone van der Walt (with distinction).
- PhD (Anatomy): Dr Natalie Keough, Dr Michelle Patriquin and Dr Kyra Stull.

## **Articles**

Two articles published in 2013 have been placed in the top 20 in their appropriate domains:

Steyn M, Scholtz D, Botha D, Pretorius S 2013. The changing face of tuberculosis: Trends in tuberculosis-associated skeletal changes. *Tuberculosis* 93 (4): 467-474.

Sutherland A, Myburgh J, Steyn M, Becker PJ 2013. The effect of body size on the rate of decomposition in a temperate region of South Africa. *Forensic Science International* 231(1-3): 257-262.

## **ASSA conference 2014**

21 Staff members and students from the Department of Anatomy, University of Pretoria attended the 42<sup>nd</sup> annual ASSA conference hosted by the University of Stellenbosch. Our staff and students performed exceptionally well, with Ms M Bodiba receiving the first runner-up prize for the best first-time presenter and Mrs S van der Walt receiving the first runner-up prize for the best presentation by a young researcher.

## **Other conferences attended**

Ms J Myburgh visited the Sir John Walsh Research Institute at the University of Otago, New Zealand from 6 to 11 January 2014.

Prof EN L'Abbé attended the 66<sup>th</sup> Annual Meeting of the American Academy of Forensic Sciences in Seattle, Washington from 18 to 22 February and presented an abstract on bone trauma. Prof L'Abbé also visited Mercyhurst University in Erie, Pennsylvania from 16 to 21 June to participate in the Analysis of Bone Trauma and Pseudo-Trauma in Suspect Violent Deaths short course, and assisted with lectures and practicals.

Prof M Steyn attended the MEPROCS International Conference on Craniofacial superimposition in Dundee, Scotland from 30 June to 4 July 2014, and presented an abstract entitled 'Craniofacial superimposition: four case studies from South Africa'.

Mr WC Nienaber and Ms M Bodiba attended the 14<sup>th</sup> Congress of the PanAfrican Archaeological Association of Prehistory and

Related Studies held at the University of the Witwatersrand from 14 to 19 July 2014 and presented the following abstracts respectively: 'Search and assessment with ground penetrating radar of possible graves in a historical setting at Magowe Anglo-Boer War (1899 -1902) cemetery' and 'Ancient DNA analysis of the Thulamela remains: deciphering the migratory patterns of an African population'.

Prof M Steyn attended and organised a symposium at the International Federation of Associations of Anatomists conference held in Beijing, China from 8 to 10 August 2014. Her presentation at the symposium was entitled 'Importance of assessment of skeletal pathology in forensic anthropological cases'. Prof EN L'Abbé and Mr M Loots also attended this conference.

Mrs D Botha and Ms A Meyer attended the 20<sup>th</sup> European Paleopathology Association Meeting in Lund, Sweden from 26 to 30 August and presented the following abstracts respectively: 'Health status of late 19<sup>th</sup> and early 20<sup>th</sup> century Khoesan' and 'An assessment of metabolic bone disease in a historic Chinese miner skeletal sample from the Witwatersrand, South Africa (AD 1904 – AD 1910)'.

Ms C van der Schoor and Mrs H Taute attended the 18<sup>th</sup> International Microscopy Congress in Prague, Czech Republic from 7 to 12 September 2014 and presented the following abstracts respectively: 'Investigation of the effect of Sibutramine on platelets and fibrin networks of male Sprague Rawley rats' and 'Investigation of the membrane effects and mode of action of the synthetic peptides Os and Os-C'.

Prof M Steyn attended the Food, Population and Health Congress in Copenhagen, Denmark from 22 to 26 September and presented 'Different diets, different diseases'.

## **Workshops presented**

### **Workshops on cadaver material**

A number of workshops on cadaver material were presented throughout the year:

25 – 26 January & 22 February 2014:

Ariste Health

12 April: Neurospine

20 June: Litha Health Care

16 – 17 August: World Institute of Pain Workshop

### **Palaeopathology symposium: 12 -15 May 2014**

The Forensic Anthropology Research Centre hosted a paleopathology symposium from 12 to 15 May 2014. The symposium was presented by Prof George Maat from The Netherlands, Prof Neels Lynnerup from Denmark and Prof Maryna Steyn. It was aimed at both forensic practitioners and bioarchaeologists who have to deal with skeletal remains. The aim was to elucidate the most common pathological changes seen on the human skeleton, with most possible differential diagnoses. Non-specific signs of disease and stress were also covered.

### **FARC Veld School**

The Forensic Anthropology Research Centre at the University of Pretoria hosted a veld school for members of the South African Police Service from 23 to 28 June 2013.



From left to right: Prof George Maat, Prof Maryna Steyn and Prof Neels Lynnerup at the Palaeopathology symposium

### **Cochlear Implants and Advanced Temporal Bone Dissection Course**

The Department of Anatomy, UP, in collaboration with the Department of Otorhinolaryngology, UP presented a Cochlear Implants and Advanced Temporal Bone Dissection Course for Ear, Nose and Throat Specialists from 29 to 31 August 2014. The presenters included, amongst others, Prof Marius Bosman and Prof Louis Hofmeyr, an ENT surgeon. The course was well attended and received by the delegates.

*Claire Venter*

## **University of Stellenbosch**

**Division of Anatomy and Histology,  
Department of Biomedical Sciences**

### **58<sup>th</sup> Annual Academic Year Day**

Several members of our department as well as post graduate students presented in 2014 at this annual event. One of the presenters was Elsje-Marie Geldenhuys who just recently received her PhD for a study entitled: "*A Morphological Assessment of the Health Status of a Cadaver Population at the Faculty of Medicine and Health Sciences, Stellenbosch University, with Special Reference to Tuberculosis (TB) Lesion Distribution*". Elsje-Marie's project incorporated pathology, histopathology, molecular biology as well as imaging into the anatomical setting.



From left to right: Ms Mandi Alblas, Dr Lene Burger from Forensic Pathology, co-supervisor of Dr Elsje-Marie Geldenhuys (right) pictured at the Annual Academic Year day of Stellenbosch University

### **Medical Morphology Museum**

Our Medical Morphology Museum is growing from strength to strength with 2014 being a particularly good year. The number of visitors to the museum has grown from 3443 in 2009 to around 7000 in 2014. Since 2010 we have a webpage ([www.sun.ac.za/anatmuseum](http://www.sun.ac.za/anatmuseum)) and a [Facebook page](#). Learners from 76 schools in the Western Cape, as well as students from 33 Institutions (University of the Western Cape, Northlink Collage, Centurion Academy, beauty schools, nursing students,

paramedical students, Cape Peninsula University of Technology and the navy), have visited over the last few years. There are around 1300 specimens in the museum and the displays range from embryology, anatomy, pathology and comparative animal anatomy. Interest from the general public has also grown since 2009 from 80 visitors to 300 visitors in 2014. These visitors feel that they leave the museum with more respect for the human body and a better understanding of human and animal diversity.



*Pictured is one of the many Grade 11 Biology classes who attend the museum during 2014*

### **IFAA 2014, Beijing, PRC**

Prof Sanet Kotzé was an invited Symposium speaker at the Conference of the International Federation of Associations of Anatomists (IFAA) held in Beijing, China in August 2014. She was invited to present a talk during the session “Teaching Anatomy in Africa”. The title of her talk was: “The challenges of developing affordable teaching innovations in Anatomy and Histology in South Africa.” She also represented the Anatomical Society of Southern Africa (ASSA) at the IFAA council meeting where Prof Beverly Kramer from Wits University was chosen as the next IFAA president.

### **AMEE 2014**

Sanet Kotzé attended and presented a poster at the AMEE 2014 conference held in Milan, Italy. The title of her poster presentation was “Quiet please: Draw-along mind maps to

focus students in a large class setting”. The theme of this year’s AMEE was ‘Excellence in Education – the 21<sup>st</sup> Century Teacher’.



*Pictured at the IFAA 2014 conference after her talk is Prof Kotzé with Prof Richard Drake from Cleveland Clinic, USA (Chairperson of the session) and Prof Wojciech Pawlina from Mayo Clinic, USA. They are Co-Editors-in-Chief of the journal Anatomical Sciences Education*

Around 3500 delegates presented in up to 36(!) parallel sessions at any given time including workshops, short communications and poster sessions. Included were two excellent sessions on “Teaching Anatomy”. It was interesting to hear that various studies in different ways supported the notion that anatomy cadaver dissection is still regarded as the most advantageous way to study anatomy, both by faculty and students. The important role of the anatomy tutors during anatomy practicals were emphasized and notable was the excellent tutor student ratios (1:16 to 25) during anatomy practicals reported by some researchers. It is clear that interest in medical education worldwide is flourishing, also in anatomical sciences education. It is always stimulating, inspiring and informative to meet up with the international anatomy teaching “family”.

*Sanet Kotzé*

**University of Kwazulu-Natal**  
**School of Laboratory Medicine and**  
**Medical Sciences**

Clinical Anatomy at UKZN today consists of the merged departments of the Nelson Mandela School of Medicine (ex UN) in Durban, and the Faculty of Health Sciences (ex UDW), in Westville, Durban since 2004. Currently the Academic staff complement consists of two Professors, one Senior Lecturer and six Lecturers. Two Associate Professor posts, one Senior Lecturer post and two Lecturer posts vacated by reason of resignation or death and were frozen, and a single Associate Professor post is currently being advertised. At the end of 2014 Prof MR Haffajee's post should be advertised for 2015, unless it too is frozen. At the end of 2015 Prof Satyapal's post comes up for renewal or re-advertising. Yes, it is very much an early ice-age here at UKZN. Interestingly, the number of Physiology posts has actually increased. The current Dean is from Physiology and most, if not all, of the administrative posts of the school are occupied by staff from the Physiology discipline.

The department is sorely in need of technically proficient staff. There are only two experienced senior staff with four general assistants on the two campuses where anatomy is taught. A single senior technician's post has been advertised. As noted at the recent ASSA meetings, there is a chronic shortage of properly trained technical staff in embalming, preservation, prosection, resin casting, and various other essential skills. This is a national issue which can only improve with the full support of an institution's management. UKZN has its own unique difficulties with a chronic shortage of cadavers and the lack of a commitment from the DoH in KZN to engage with a reluctant Deanery and Principle. While a fair amount of money has been spent on renovating and

refurbishing the Plastination Laboratory, UKZN can sadly not provide the human resource budget to make use of the unit. Perhaps the way to go is to privatize the running of it by appropriate outside expertise? The clinical anatomy curriculum at the medical school is now spread across four years, with an introductory systems course in year one, a substantial dissecting program in year two, and some additional thematic modules for limbs and brain in year three. The "new" curriculum attempts to integrate learning themes with the basic sciences, including anatomy.

Naturally there are teething problems but hopefully, over time, they will be ironed out. Currently there is no Head and Neck module, and an attempt is being made, through the office of the Dean, and the College, to conduct a self-learning Visual Learning Project (VLP) for the Head and Neck from late in 2014. Optimism abounds. The student numbers are therefore quadrupled at the Medical School, and the staff has decreased. A not enviable set of circumstances.

At a recent meeting between mid-level staff, the Dean and the School Academic leader, it has become painfully evident that anatomy practical training by dissection is being considered for phasing out. Yes, as incredible as it sounds, this is the trajectory that is being considered because of the chronic shortages of cadavers and the failure to engage with the provincial DoH. For 2015 only five cadavers are being made available for the allied health sciences. The academic impact of this hasty arrangement for 2015 bodes an ill wind.

However, with regard to the academic capacity development, credentialing is high on UKZN's agenda. There is a strong commitment by management and much effort is being made to support post-graduate students, both financially and by mentoring. Human tissue for research is, however, an ongoing problem. This has resulted in more postgraduate students embarking on research involving imaging modalities such

as CT, MRI, Angiography, Lodox Scanning etc. with resultant increase in focus on research in Clinical Anatomy and Forensic Anthropology. This applied research has all the more excitement for non-clinical postgraduates. Along with this the postgraduate student complement has steadily increased, especially at Masters and Doctorate level. Below is a list of postgraduate students, staff and their current work:

Ms Arishka Kalicharan presented her Honours work on the arterial supply of the sole of the foot at the 42<sup>nd</sup> ASSA meeting in Stellenbosch, and at college meetings in KZN. She is currently doing her Masters on the anatomy of the plantar aponeurosis in relation to the condition of plantar fasciitis. She is also engaged in a study on the patella and patellofemoral dislocations. She has presented her work at the ASSA meetings in 2013 and 2014 and has just published her first paper on the arterial supply of the sole of the foot.

Ms Sundika Ishwarlall is finalizing submission of her Master's study on the prevalence of the impacted third molar in the greater Durban Metropolitan Population. She has presented aspects of her Master's work and a study on the jugular foramen at the 42<sup>nd</sup> ASSA and at the recent college symposium at UKZN in September 2014. One paper has been accepted for publication. She is passionate about forensic sciences and physical anthropology.

Ms Shivani Govender is pursuing a Master's thesis on post-mortem organ weights and volumes. There are no studies on the norms for visceral parameters in SA that we are aware of. Needless to say this study will be of value to pathologists, forensic scientists, surgeons, and radiologists.

Ms Nerissa Naidoo is also finalizing her Master's work. It centres around the micro- and macro-anatomy of the critical zone of the rotator cuff muscles. She has presented her work on the vascularization of the rotator cuff

muscles at the 42<sup>nd</sup> ASSA meeting as well as at the College of Health Sciences annual Symposium. At present, two papers documenting incidental enthesopathic findings of the rotator cuff in the shoulders of cadavers are in press, and a further three papers emanating from this study are in preparation. She is also involved in a study on the median nerve in the carpal tunnel – out soon – and in an anatomy module design in English/isiZulu, the first of its kind. She is a trainee lecturer on both the Westville and Medical School campuses.

Ms Chantel Jughoo, an ADO officer and Mentor in Anatomy to undergraduate students in the Faculty of Health Science, has been with the discipline for five years. Her Masters research project is on the structure of the Achille's tendon and the biomechanical basis for its rupture. She presented this work at the 2011 ASSA meeting at Wits.

Except for the first candidate, all of the doctoral students listed below, have presented some aspects of their work at local or international conferences. In addition Ms Brenda De Gama and Ms Pamela Pillay were awarded the 2<sup>nd</sup> prize in the credentialing staff category at the UKZN College of Health Sciences for an oral and poster presentation, respectively. They were awarded a R15 000 prize which they can use towards presentation of their research at a national conference in SA in 2015. Well done to them! Mr Dominic Marera from Kenya is doing his doctorate, title of which is: Age estimation using radiographic staging of medial clavicular epiphysis: A comparative study in South Africa and Kenya. He hopes to complete by October 2014. He has also submitted a paper on fingerprints for publication.

Dr Nasirudeen Ajayi is doing his doctorate on coronary artery collaterals and the possible predictability of certain ischaemic outcomes of coronary occlusion.

Mrs Pamela Pillay is doing her doctorate on medico-legal aspects of cadaver donation in South Africa. She presented part of her PhD research as a poster on cadaver procurement at UKZN.

Mrs Brenda De Gama is doing her doctorate on socio-cultural and religious aspects of cadaver donation in South Africa. She presented a paper on aspects of body donation at a college symposium.

Mrs Fazila Ally is doing her doctorate on ageing based on foot epiphyseal ossification. Mrs Keseri Naidoo is doing her doctorate on ageing of the carpal and elbow epiphyseal ossification.

Dr OO Azu has an interest in plastination and andrology and continues to do work in this area, while Dr ECS Naidoo is doing his PhD on Fetal Alcohol Syndrome.

Prof Satyapal has his hands full in multiple areas of research and supervision, as does Prof MR Haffajee. Prof MR Haffajee is obliged to retire at the end of 2014, and Prof KS Satyapal continues for at least another year. Good luck to both of them!

*M R Haffajee*

**University of Cape Town  
Department of Human Biology**

The academic year has flashed by very quickly and it is difficult to imagine how we can be right back into the final examination period yet again. From our side, we wish everyone from ASSA a successful assessment period and a restful and peaceful end of year. May your batteries be thoroughly recharged for 2015!

The universities Book Award Committee recently awarded Prof Alan Morris a Meritorious Award in acknowledgement of the outstanding book he authored entitled "Missing and Murdered". After so many years in our Department, Prof Alan Morris retires at the end of this year and will be staying on at UCT as an Emeritus Professor. Alan will also be Leverhulme Visiting Professor in the Institute for Human Evolutionary Studies at Cambridge University for four months from the 1st of May next year. We are most fortunate to be able to benefit from continued close contact with Alan.

At the recent ASSA conference in Stellenbosch, UCT won three of the four awards for their presentations. The three winners were:

- 1) Belinda Speed - best young
- 2) Petra Schwab - best poster
- 3) Kyle Paulssen - best first time presenter

Drs Liz van Der Merwe, Lester Davids, Robea Ballo and Prof Sue Kidson also contributed to the conference and headed up the organising committee for an inaugural Cell Biology and Developmental Symposium which also took place on Sunday, 13 April.

I am pleased to announce that Prof Ernesta Meintjes and other collaborators within the faculty have secured R23 million for a new research-dedicated full body MRI scanner to be located at GSH. Members of the fund-raising team included Prof Mayosi from Medicine, Prof Dan Stein from Psychiatry, Prof Fieggen from Neurosurgery, Prof Marc Combrinck from Neurology, and others. Funds were secured from the NRF National Equipment Programme, Technology Innovation Agency, and Cancer Research Trust.





*Antoinette Kotzé Award for best first-time presenter to Kyle Paulssen*



*Bob Symington Award for best presentation by a young researcher to Belinda Speed*



*The SV Naidoo Award for the best poster Petra Schwab*

Dr Mary Partick has been appointed as an honorary lecturer in the department while Drs Tacy Kolbe-Alexander and Robert Lamberts have been appointed as honorary senior lecturer.

Prof Sharon Prince was awarded a CANSA Research Grant - 2014/2015. Dr Sudesh Sivarasu (HUB) and Dr Steve Roche (Orthopedics Surgery) were awarded a MRC Self-initiated Research Grant for 2014, while Dr Keertan Dheda (Lung Institute/ GSH), Prof Jonathan Blackburn (IDM), Dr Lester John (HUB) and Dr Sudesh Sivarasu (HUB) were awarded a MRC SHIP Grant for 2014.

At the beginning of October, we were fortunate to be able to welcome a new anatomy tutor into our fold, namely Dr Sikiru Jimoh. Sikiru hails from Nigeria and has a lengthy history of teaching students both at UCT and at the University of the Witwatersrand. A warm welcome to Sikiru!

Finally, I'd like to point readers to a 40-minute video that was shot of one of our tutors in the dissection hall, Coenie Hattingh, performing a complete dissection of the brain. Coenie is a very gifted teacher who has registered for his PhD in the Department of Psychiatry and Mental Health. The name of the video is "The Neuroanatomy of Affect" and the link is:

[www.youtube.com/watch?v=zSGTta41-UA](http://www.youtube.com/watch?v=zSGTta41-UA)

*Graham Louw*

**University of Pretoria**  
**Department of Anatomy and Physiology,**  
**Faculty of Veterinary Science**

**Undergraduate teaching**

It has been a busy year with 194 students in our anatomy class, our largest contingent yet. Handling such a large group has been challenging, yet the year seems to have been successful. We employed the “divide and conquer method” and handled the class in two groups. While one group was involved in dissections the other attended lectures. This was the first year that we offered lectures for anatomy and they were well received by the students. Lectures incorporated theory and practical components and made use of sketches, photos and videos. The new clicker response system also made these lectures far more interactive. The use of CBT has really helped in decreasing our marking load and appears to be a very effective method of testing the students. However, with the use of computers for testing anatomy, the student's interest in studying from wet specimens has drastically decreased, a challenge which we must still overcome.

**Departmental achievements and visitors**

This year the Department bade farewell to Prof Ken Booth who resigned in February after spending a life-time in the field of Veterinary Anatomy and Histology. We wish him a happy retirement. In April Martina Crole was conferred with her PhD, which was judged as outstanding by all three examiners. In July Dr Christine Steyn joined the Department as a full-time lecturer in anatomy. She came from a background of 4½ years in small animal practice. She is an excellent addition to the Department and has already begun her MSc entitled: “The radiological anatomy, osteology and myology of the ground pangolin (*Manis temminckii*) thoracic limb”. Christine is the first new lecturer to be appointed in anatomy since 2007 and we

wish her a long and happy career here. John Soley was once again one of the top 10 researchers in the Faculty of Veterinary Science.

The Electron Microscopy Unit has been visited this year by a Sudanese research group doing work on rabbit reproduction.

**Local conferences**

John Soley, Herman Groenewald and Martina Crole attended the 42<sup>nd</sup> Annual ASSA Congress in Stellenbosch, and presented work on emu sperm, the crocodile liver and the ostrich and emu bony bill tips. Herman was honoured at this meeting with the “Distinguished Member Award” for his valuable contribution to the society.



*Herman Groenewald receiving the “Distinguished Member Award” from ASSA President Graham Louw*

Christine attended the WSAVA - 39<sup>th</sup> World Small Animal Veterinary Association - Congress from the 16-19 Sept 2014 in Cape Town. Members of the Department will also be attending and presenting at the 52<sup>nd</sup> Annual Microscopy Society of Southern Africa (MSSA) Conference to be held at the Protea Hotel, Stellenbosch. Martina will present work from her PhD on the nerve supply to the bill tip of the ostrich and emu.

## International conferences

Prof John Soley and Dr Lizette du Plessis completed a successful visit to Australia during August 2014. Both staff members were invited to present seminars on various morphological aspects of ostrich reproduction at the School of Animal Biology, University of Western Australia in Perth and were also involved in discussing ongoing and future research collaborations on artificial insemination in ostriches with

Prof Irek Malecki. Prof Malecki pioneered the dummy collection method for obtaining physiological semen samples from ostriches. John was also invited to give the opening Norman R. Adams Memorial lecture at the annual meeting of the Reproductive Biology and Endocrinology Society of Western Australia held on 6<sup>th</sup> August. John and Lizette then travelled to Newcastle (New South Wales) which is situated 200km north of Sydney to attend the Androfest – the 9<sup>th</sup> Biennial Meeting of the Association for Applied Animal Andrology (AAAA) (8-10 August) and the 12<sup>th</sup> International Symposium on Spermatology (10-14 August). At the AAAA meeting Lizette presented a poster titled “Morphology and incidence of sperm defects in the ostrich, *Struthio camelus*” and John presented the plenary lecture at the Society dinner on the topic “Ratite Sperm Morphology: A Birds-Eye View”. During the Annual General Meeting of the AAAA, Lizette was elected to serve on the board of directors for the period 2014-2016. At the International Symposium on Spermatology Prof Soley gave an oral presentation entitled “Macrocephalic sperm in ratites: variations on a theme”. This paper elicited a great deal of attention and discussion, culminating in proposed collaboration between Lizette, John and Dr Bart Gadella of the University of Utrecht in the Netherlands.

Martina presented a poster entitled: “The enigmatic bill tip organ of the ostrich and emu” at the Theo Murphy International Scientific Meeting - When senses take flight:

the evolution, development, mechanisms and function of avian senses, held on 4-5 September 2014, The Royal Society at Chicheley Hall, Buckinghamshire, England.

Erna van Wilpe visited Prague and presented a poster entitled: “Micromorphology of the liver of the juvenile Nile crocodile, *Crocodylus niloticus*”, with Herman as a co-author at the 18<sup>th</sup> International Microscopy Congress, 7-12 September.



From left to right: Dr Lizette du Plessis, newly elected Board Member of the AAAA with Dr Peter Chenoweth (immediate Past President and current vice-President of the AAAA) and Prof John Soley



Chicheley Hall, Buckinghamshire, England

*Martina Crole*

## University of the Witwatersrand

### School of Anatomical Sciences

This has been a busy year for the School of Anatomical Sciences and staff and students have represented the University of the Witwatersrand at numerous workshops, courses and conferences, both local and international.

We would like to congratulate Dr Tanya Augustine on receiving her PhD. Dr Augustine was invited to present her work entitled "Immune-mediation alters the cytokine profile of hormone-dependent and hormone-independent breast cancer cells in a 3D in vitro culture system" at the 10<sup>th</sup> Annual Academic Surgical Congress in February 2015, Las Vegas, USA.

During April, Desiré Brits attended the 42<sup>nd</sup> Annual Conference of the Anatomical Society of Southern Africa, in Stellenbosch where she did an oral presentation entitled "Estimating stature from the mandible in black South Africans" and a poster presentation titled "Stature estimation from the femur and tibia in subadults".

Erin Hutchinson was invited to deliver a series of lectures on the craniofacial growth and juvenile osteology of the craniofacial region at the 30<sup>th</sup> annual meeting of the New Zealand Society of Forensic Odontology that took place in Wellington, New Zealand from the 23<sup>rd</sup> to 25<sup>th</sup> May. Erin was also a guest of the New Zealand Forensic Science Society and the Sir John Walsh Research Institute where she delivered a brief address on the challenges of age estimation from the juvenile cranium within a forensic setting at the Faculty of Dentistry, University of Otago in Dunedin, New Zealand. During her visit to Dunedin, Erin also visited the University of Otago's Marine Research Centre in Portobello.

Erin Hutchinson presented a poster entitled: "Deciduous dental development in the juvenile mandible" at the 92<sup>nd</sup> General

session of the International Association for Dental Research held in Cape Town from the 24<sup>th</sup> to 28<sup>th</sup> June. This work is in collaboration with Prof Beverley Kramer (School of Anatomical Sciences, Wits) and the late Prof Jules Kieser (Sir John Walsh Research Institute, University of Otago, New Zealand).



*Erin Hutchinson, University of Otago Marine Research Centre, Portobello Dunedin, New Zealand*

A number of staff and students also attended the 18th Congress of the International Federations of Anatomical Associations (IFAA) recently held in Beijing, China. Prof Lynne Schepartz, Head of the division of Biological Anthropology, organised the Palaeoanthropology and Biological Anthropology symposium entitled "A Session in Honour of Phillip V. Tobias" which was very well-attended. This session was chaired by Lynne Schepartz (Wits) and Liu Wu (IVPP, China). The speakers included Emiliano Bruner (CENIEH, Spain), Jane Buikstra (Arizona State University, USA), Kristian Carlson (Wits), Tea Jashashvili (Wits), Clark Spenser Larsen (Ohio State University, USA) and Christopher Ruff (Johns Hopkins University, USA).

Stacey Lander delivered an oral presentation on her MSc work entitled "A study of the diagenetic alteration of bone from the Crown

Mines, South Africa”, while Andrea Kolkenbeck–Ruh did a poster presentation on her MSc work entitled: “Anomalous patterns of the carotid arterial system”. Dr Hartmann also did an oral presentation on her MSc work which was titled ‘The effect of a nanocrystalline silver dressing on epithelial restoration and the rate of healing in full thickness, excisional wounds in a porcine model’. Mr Robert Ndou and Ms Erin Hutchinson presented some results from their PhD’s entitled: “Characterization of the tissue crossing the septal aperture using radiography and histochemical techniques” and “Changes in the bony architecture of the immature human mandible”, respectively. At the conference Prof Beverley Kramer was elected President of the IFAA. This is the first time in the history of the Federation that a woman and a member of a society from the African continent has been elected. Prof Kramer has been involved with the IFAA in a variety of roles. She was the Editor of the Federation’s Newsletter, “Plexus” for many years and is an active member of its Anatomical Terminology Committee. The latter committee has produced three terminologies: Terminologia Anatomica, Histologica and Embryologica available in book and electronic format, which are utilized by anatomists and clinicians around the globe. She was also the President of the 17<sup>th</sup> Congress of the IFAA held in Cape Town in 2011, the first time that this Congress had been held on African soil. Prof Kramer has also been Vice-President of the Federation from 2011-2015.

At the recent Faculty of Health Sciences Research Day, Dr Hartmann was awarded the best poster presentation in the theme of Clinical Sciences and Therapeutics for health for her poster entitled ‘The effect of a nanocrystalline silver dressing on the inflammatory response, epithelial restoration and the rate of healing in acute, full-thickness, excisional wounds in a porcine model’. Prof Kramer and Prof Rode were co-

authors on the poster which also presented work that formed part of Dr Hartmann’s MSc. Candice Small and Desiré Brits attended the International Association of Forensic Sciences, which formed part of the World Forensic Festival in Seoul, South Korea. Both Ms Small and Mrs Brits gave oral presentations related to work on their PhD’s. They also attended two workshops on forensic anthropology presented by Prof Dough Ubelaker and Prof Dawnie Steadman.



*From left to right: Prof Sanet Kotzé (University of Stellenbosch), Dr Nalini Pather (University of New South Wales), Erin Hutchinson (University of the Witwatersrand), Prof Beverley Kramer (University of the Witwatersrand) and Dr Carol Hartmann (University of the Witwatersrand) at the IFAA, Beijing, China, 2014*

*Desiré Brits*

## Obituary: Professor Jules Kieser

Professor Jules Kieser, an alumnus of the Faculty of Health Sciences, University of the Witwatersrand, colleague and dear friend, passed away suddenly on June 10. Jules was the Associate Dean for Research in the Faculty of Dentistry at the University of Otago, New Zealand at the time of his death and had been inaugural Director of the Sir John Walsh Research Institute. Jules was a Wits graduate and obtained his BSc in anatomy in 1971 and his dental qualification in 1975. Always highly motivated and dedicated to research, his PhD was awarded in 1989 and his DSc in 1991. Jules was

appointed as Reader in Craniofacial Biology at Wits and also held an Honorary Professorship in Anatomy in the School of Anatomical Sciences. He practiced dentistry in South Africa and in London. In 1996 Prof Kieser and his family left for New Zealand where he took up the position of Chair and Head of the Department of Oral Sciences at the University of Otago in Dunedin.

Jules was a dedicated teacher and researcher. His areas of research included biomechanics and anatomy of the oro-facial region and also forensic biology. He had published numerous books and over 150 scientific articles at the time of his death. He was an international expert of renown in the field of forensic dentistry and played a leading role in the identification of victims following the devastating 2004 Boxing Day Thai tsunami, as well as the identification of victims from the Christchurch earthquake. His dynamic and innovative approach to research in general fostered collaborations globally but in particular across New Zealand, South Africa, Australia and Europe. As a postgraduate supervisor, Jules always encouraged his students to extend their boundaries and question every facet of their projects. His unyielding enthusiasm and meticulous approach to both supervision and research resulted in numerous academic awards, accolades and commendations being bestowed upon him by both academic and public sectors. In addition, he was nominated as supervisor of the year in 2011, 2013 and 2014 at Otago. Jules' mischievous nature coupled with his thirst for knowledge earned him the devotion and respect of every single student and academic privileged to work with him. He was both a guiding force and an inspiration, with a sharp and exceptionally witty sense of humour.

Jules as a forensic scientist was both meticulous and enthusiastic. Jules was always prepared to be a part of any exciting and relevant project. He will be fondly remembered by many of his students for the

forensic workshops he hosted and his efforts to promote forensic research during the Otago University Summer School.

Jules Kieser touched the lives of many people. He will be fondly remembered as a respected and knowledgeable colleague, exciting collaborator and much loved and trusted friend. His laugh and witty sense of humour will be missed by students and colleagues alike. The loss of Jules' extensive knowledge in the field of forensic sciences in particular, will be keenly felt, not only by his colleagues and collaborators at Wits, but by many international scientists around the globe.

Jules leaves behind his wife Glynnie and four children, two of whom graduated at Otago University. Our deepest sympathy is extended to Glynnie and his sons, daughter and their families.

We are immensely saddened by his death.



*Prof Jules Kieser*

*Beu Kramer and Erin Hutchinson*