New dean is dedicated to the veterinary profession

Prof Gerry Swan, new dean of the Faculty of Veterinary Science at Onderstepoort, is no stranger to the veterinary profession or to the University environment.

Originally from the Eastern Cape, Prof Swan graduated from Onderstepoort as a veterinarian in 1973. He went on to complete his BVSc (Hons), MMedVet, specialising in pharmacology and toxicology, and PhD. After a stint as a State veterinarian in the Karoo town of De Aar, he joined the veterinary pharmaceutical industry. His primary involvement was research associated with the development of new drugs.

Prof Swan joined the Faculty as a senior lecturer in the Department of Physiology, Pharmacology and Toxicology in 1985. He was appointed to the Cooper Chair in Pharmacology in 1988 and to Head of the Department of Pharmacology and Toxicology in 1994. With the restructuring of the Faculty following its amalgamation with Medunsa’s Faculty of Veterinary Science in 2001, he became head of the newly established Department of Paraclinical Sciences, which included a broader range of disciplines than the initial pharmacology and toxicology.

As Head of Paraclinical Sciences, Prof Swan succeeded in taking a diverse group of people and building the department into a very strong department within the Faculty. He managed to do this by recognising the importance of building the capacity of his staff and encouraging individuals to develop their potential. He attributes the success that he was able to achieve this to the space the University provides its staff to develop both personally and professionally.

Onderstepoort’s new dean is dedicated to the veterinary profession and looks back at his involvement in research and the development of programmes in the Faculty as a career highlight.

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Change has become our constant state. Now a change of the guard in the Faculty has occurred. It is a great honour and privilege to be appointed as the new Dean. I am very aware of the importance of the position and the fact that the veterinary profession is at a very critical point in its history. It is my intention to serve the Faculty and the profession to the best of my abilities. I will devote my attention equally to both small and large tasks. In his book The Purpose Driven Life, Rick Warren makes the point that great opportunities often disguise themselves in small tasks. I pray for the necessary wisdom to deal with issues decisively and fairly.

As expressed by Prof Kriek in his last message in OPNews “there is no time for complacency”. It is now our responsibility to utilise the platform created in order to move the Faculty forward and to align the Faculty outputs with those of the University’s targets. Some of our challenges were outlined in his message, including sustainable funding, appropriate training programmes for veterinary and para-veterinary professionals in ensuring future veterinary competencies and services, and the emphasis the Faculty places on the different components of its core business.

Another important issue is the transformation of the staff and student body to meet the equity targets of the government. This is an area that is very closely monitored by those concerned and for which the Faculty and the University receives a lot of criticism. Intensive outreach and recruitment initiatives will have to continue to meet this very important objective.

In developing the Faculty as one of the premier faculties in the world much more emphasis will have to be placed on postgraduate training and research programmes that support this training. Not only do we need to increase the number and turnover rate of postgraduate students, but we need to develop unique, innovative research programmes and expertise that will attract the best students. Our wildlife heritage, scope of tropical diseases and unique interfaces between humans, animals and the environment provides us with such an opportunity.

My expectation is that we are up to the challenge. We can achieve this through holding hands and working together to tackle these very important issues - we all have a role to play. It may also require a completely new approach. Taking the easy or apparently obvious road may not be the answer. Robert Frost states, “Two roads diverged in a wood, and I took the one less travelled by, and that has made all the difference”.

I slept and dreamed that life was joy. I woke and saw that life was service. I acted, and behold, service was joy (Rabindranath Tagore).

Now is the time to act, let’s enjoy it together.

Prof Gerry Swan
Dean
Japanese academic visits Onderstepoort

Prof Yutaka Tamura, Head of the Department of Veterinary Public Health, School of Veterinary Medicine from Rakuno Gakuen University, Japan, was invited by the Department of Veterinary Tropical Diseases (DVTD) to visit South Africa, and more specifically the Faculty of Veterinary Science to explore possible research and teaching activities of mutual interest.

Prof Tamura has had an indirect research association with the Faculty of Veterinary Science through the committee of the World Organisation for Animal Health (OIE) for resistance to antimicrobial drugs. Prof Moritz van Vuuren was a member of this committee. The committee’s mandate ended with the publication of five articles in the Revue Scientifique et Technique Office International des Epizooties, relating to antimicrobial resistance.

This collaborative work provided the basis for the current initiative to explore longer term collaboration between the two veterinary schools. The initiative received further impetus when the National Research Foundation (NRF), South Africa and the Japan Society for the Promotion of Science (JSPS) signed a Memorandum of Understanding on 4 March 2005. The purpose of the MoU is to strengthen cooperation between the JSPS and the NRF on scientific research, to promote and support new funding opportunities for joint research projects that will be exploited in the near future.

The visitors availed themselves of the opportunity to experience African wildlife in the Pilanesberg Game Reserve.

Canine and feline vaccination – scientific re-appraisal

Prof Moritz van Vuuren was afforded the opportunity to attend, as a guest of Intervet South Africa, the inaugural symposium, Canine and Feline Vaccination – Scientific Reappraisal, that was jointly hosted by the Veterinary Faculty, University of Utrecht and Intervet International.

The aim was to provide a platform for invited delegates and speakers to discuss recent advances in the field of canine and feline vaccines and vaccination.

Key issues that were discussed included vaccine development, vaccination protocols, vaccine safety and vaccine efficacy. The organisers wanted to ensure that the importance of pet vaccination remains firmly on the agenda of veterinarians and the public.

To achieve this objective, renowned experts in the field of infectious diseases, immunology and vaccinology were invited to stimulate lively debate among members of the international audience emanating from 20 countries.

The proceedings of the symposium will be published early in 2006 in a special edition of the peer-reviewed journal, Veterinary Microbiology.
The Department of Science and Technology made an amount of R40 million available to the Agricultural Research Council to build the human capacity in its different Institutions. Dr Anthony Musoke, Technical Manager (same as Director) of the Agricultural Research Council-Onderstepoort Veterinary Institute (ARC-OVI) approached the Faculty of Veterinary Science to be the “training arm” of this initiative. A total of 16 postgraduate students (most at PhD level) will be trained in the fields of biotechnology, microbiology, parasitology, and immunology in the Department of Veterinary Tropical Diseases (DVTD).

It was decided that it will be beneficial to appoint those researchers at the ARC-OVI with a PhD at an appropriate level in the DVTD so that they can act as supervisors for the students. The students will work under their direct supervision in the laboratories at the ARC-OVI.

The benefits to the DVTD, Faculty and UP include the following:
- An additional 16 fully funded postgraduate students (most at PhD level).
- Increased number of publications as a result of their research projects.
- Collaboration with the best qualified staff at the ARC-OVI in the above-mentioned disciplines.
- Increased expertise in the DVTD on important diseases such as bluetongue, African horse sickness, foot-and-mouth disease, rabies, trypanosomosis and bovine theileriosis.
- Participation of OVI staff members in lectures/discussions for postgraduate students and CPD courses.
- Utilisation of their facilities/equipment for training purposes.

The following personnel have been appointed as extraordinary professors or lecturers in the Department of Veterinary Tropical Diseases:

**Extraordinary professors**
- Prof Dion du Plessis
- Prof Abdalla Latif
- Prof Phelix Matjiwa

**Extraordinary lecturers**
- Dr Jeanni Fehrsen
- Dr Jeanette Heath
- Dr Karin Kappmeier
- Dr Otto Koekemoer
- Dr Christiaan Potgieter
- Dr Claude Sabeta
- Dr Marinda van Kleef.

During the last week of June, thirteen students from the Phytomedicine Programme presented research papers at the Indigenous Plant Use Forum (IPUF) in Grahamstown. IPUF is an annual conference supported by the NRF and is attended by scientists and other people with an interest in the investigation, development and commercialisation of indigenous plants, particularly with regard to their medicinal properties. A field trip to discover more about the aloe industry in the region was one of the highlights of the week. Jerry Angeh, a PhD student in the Phytomedicine Programme, made us proud after winning the award for the best young scientist paper presentation. This is the second year running that an OP student has won the prize. IPUF provides a valuable opportunity to make contact with other scientists in the field of indigenous plants, as well as for students to gain experience in presenting their results and receiving useful feedback on research projects.

The students are pictured here with the Aloe harvesters.
Faculty hosts 5th ICAHIS conference

The Academic Information Service’s Veterinary Science Library, hosted the 5th International Conference of Animal Health Information Specialists (ICAHIS) from 4 to 7 July 2005.

With the theme Running wild, running free: capturing, harnessing and disseminating knowledge flows in support of animal health, this conference brought information specialists from both developed and developing countries together to share knowledge and expertise in the critical animal health information field.

The conference was attended by 65 participants representing 30 veterinary libraries or institutions from Africa, Europe, Australia and the United States. Since this was the first time that the conference was taking place on the African continent participation from other African nations was especially encouraged. Thanks to support from the Technical Centre for Agricultural and Rural Cooperation (CTA), Wageningen, The Netherlands, seven information specialists representing Uganda, Tanzania, Mozambique, Nigeria, Zambia and Zimbabwe were able to attend and deliver papers at the conference.

The first day’s keynote speaker, Dr. Adi Paterson, Deputy Director-General, Department of Science and Technology, South Africa, addressed the country’s electronic information research agenda. He praised the efforts of the ICAHIS, noting that self-organised groups are much more effective for crafting global solutions to problems related to information access and exchange than governmental or institutional bureaucracies.

During the course of the conference 23 papers were delivered - seven from other countries in Africa, seven from South Africa, one from Australia, two from the UK and six from the USA.

The poster session consisted of 13 posters on a variety of topics relevant to information and knowledge management. Two were from South Africa, one from Mozambique, three from Scandinavia, one from the UK, two from the USA and four from Italy.

Feedback from participants indicates that the four days of meetings, presentations, poster sessions, tours and the four pre-conference workshop days were very successful.
SA students go international!

By Victoria Geddes and Brett Catherine

The International Veterinary Students’ Association (IVSA) was established in 1952, as a global, student-based association that exists to benefit the people and animals of the world.

IVSA holds an annual congress and symposium that is hosted by different veterinary faculties every year. Student members from all over the globe attend these meetings to share ideas and make plans. The 2005 congress was unique in that it was held in two countries, Austria and Slovenia.

The General Assemblies were constructive and the South African students were able to voice their opinions. The social programme included sometimes extravagant, sometimes budget-strapped but always raucous parties. Those UP students who attended the conference experienced a buffet in the Vienna City Hall (where Napoleon wined and dined) and drank beer in the local student pubs.

The most memorable social events included the Development Fund Auction, where each country donates items to be sold to raise funds for the benefit of underprivileged veterinary faculties; the cultural evening, where each country displays their local food and drinks; and the talent show, where each country performs a talent unique to their country. South Africa’s contribution to the above events included home-made mampoer; bottle store cane; Amarula Cream; niknaks; pap en sous; khaki kit; Shosholoza and singing Nkosi Sikelela’ Afrika. As strong as some of the other drinks were (Austrian Schnapps, Slovenian Borovnicka), the mampoer definitely had the “blow your socks off” effect.

The congress also provided the UP students with the chance to promote the Faculty and the university. It was interesting to hear how other universities’ curriculums are designed. It made us all appreciate just how lucky we are to study at Onderstepoort, with its world-class facilities and an internationally recognised degree.

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Women in Science Awards

The Department of Science and Technology recognises and highlights the contribution of women in scientific research through their Women in Science awards. These annual awards publicise the role of women in the development and improvement of the quality of life of people in South Africa.

There are various categories of awards, and Dr Lyndy McGaw, Claude Leon postdoctoral fellow in the Phytomedicine Programme, Department of Paraclinical Sciences, was nominated in the category Best Emerging Young Woman Scientist. The criteria for this award include a PhD and less than five years' postdoctoral experience in natural sciences or engineering.

After obtaining her PhD in 2001, Lyndy worked as a postdoctoral fellow at King’s College, London and at the University of Pretoria. Her current research involves the establishment and optimisation of a number of in vitro bioassays used to screen extracts of plants for biological activity and cytotoxicity. These investigations are highly applicable to community development in that attention is focused on evaluating the safety and efficacy of plants used for medicinal purposes (human and animal use). To date, Lyndy is co-author of 14 publications in international and national journals, as well as two book chapters. She assists with supervising a number of MSc and PhD students and has presented work at many conferences in various countries around the world.

The Women in Science awards ceremony took place on Friday 12 August at the Hilton Hotel in Johannesburg, and was officially opened by Mr Mosibudi Mangena, Minister of Science and Technology. Although Lyndy did not return to Onderstepoort with the prize in her category, she was one of the three finalists. The winner of the Best Emerging Young Woman Scientist Award, Dr Karin Jacobs, is an alumnus of the University of Pretoria.

Prof Swan receives Boswell Award

Prof Gerry Swan, newly-appointed Dean of the Faculty, received the Boswell Award 2005 for his major contributions to the South African Veterinary Association [SAVA]. The Boswell Award is made to any member of SAVA for eminent service rendered to the profession through SAVA. As a member of committees, chairperson of committees, nationally elected member of Federal Council, member of the Executive Committee, Vice-President and President of SAVA, Prof Swan steered the Association through many trying times.

At one point Prof Swan basically had to take over running the affairs of the Association. He spent at least one full day a week at Vethouse and if it had not been for his dedication, there is a distinct possibility that the Association could have faced bankruptcy. The Boswell Award is a small token of the Association’s recognition of Prof Swan’s contributions.

Dr Lyndy McGaw at work.
Nutrigenomic technology (study of a nutrient’s effect on gene expression) showed that high levels of the fatty acid EPA (eicosapentanoic acid) actually block the production of cartilage damaging enzymes within the joint.

This is a critical step in controlling OA as it prevents further degradation of joints and the inflammation that goes with it. EPA was also shown to be the fatty acid selectively taken up in the joint.

Four double blind placebo controlled studies showed j/d to be highly effective in reducing the symptoms of OA conditions such as hip and elbow displasia, cruciate ligament disease and OCD.

j/d has the following nutritional characteristics:
- Highest levels of EPA to block degenerative enzymes.
- High levels of n3 fatty acids.
- Low ratio of n6:n3 decreases inflammation within the joint.
- Added glucosamine and chondroitin sulphate as cartilage building blocks.
- Good quality protein and other nutrients at appropriate levels for adults and seniors.
- Added L-Carnitine to help maintain lean muscle mass.
- Exhaustive safety testing (including AAFCO feeding trials) to ensure the product is not only effective, but safe too.

Hill’s is very proud to have been involved in support and education at Onderstepoort. Hill’s Pet Nutrition is a global company that owes its humble beginnings to Dr Mark Morris, who in 1948 formulated the world’s first Prescription Diet (k/d).

Hill’s has a proud history of innovation, the best quality products and strong ties with veterinarians around the world. It is committed to education, not only about clinical nutrition, but all skills needed by future colleagues in the veterinary faculty.

Please contact Dr Guy Fyvie at guy@hillspet.co.za for further information or advice.
The UP students would like to thank the following sponsors for the awesome opportunity of attending the Congress: Hill’s Pet Nutrition, Merial SA, Bayer SA, Roche Diagnostics, the Faculty of Veterinary Science, Anchor Pharm and Novartis.

In December this year, the local South African IVSA chapter is proud to be hosting the 54th symposium at Onderstepoort. This is a wonderful opportunity to show off our Faculty. The chapter is grateful for the support received thus far from the Faculty and particularly from Prof Nick Kriek, former Dean of the Faculty. The theme of the symposium is Primary animal health care and environmental awareness. We are expecting 40 international students along with 20 South African students. We hope to give them a brief insight into our diverse and unique country along with all the challenges that face our profession in Africa.

He is committed to assisting the Faculty to put structures in place to facilitate research in order to build its capacity and achieve both national and international acclaim. He considers collaboration with research and educational institutions in Africa and the rest of the world to be a priority in meeting this objective.

“With the necessary capacity, Onderstepoort can succeed in becoming one of the premier faculties of veterinary science in the world,” says Prof Swan. In this regard, he believes in the importance of “growing one’s own timber” by recruiting people who can be developed to the benefit not only of the Faculty (and the University), but also the profession.

As dean, his dream is to develop an enthusiastic, motivated group of people who will work together to take the faculty forward to higher levels. “I want to create an excitement about veterinary science as a profession,” he says.

The Faculty of Veterinary Science is already regarded as a leader in the training of veterinarians, attracting students from countries in sub-Saharan Africa. In order to continue to compete with the best in the world, the faculty needs to increase its focus on research and postgraduate training. Among the challenges that Prof Swan is set to tackle during his term in office, therefore, are to increase the depth of research in the Faculty; and to continue the Faculty’s transformation agenda in order to supply the marketplace with veterinarians that meet the needs of Africa.

Prof Swan is of the opinion that veterinary science is poorly understood in the rural communities. The existing community engagement programmes therefore need to be expanded in order to attract more students from those communities that would not traditionally have considered veterinary science as a career option. When he is not involved in wildlife research, Prof Swan is an avid carpenter and gardener. He also devotes himself to church activities. He is married to Lina and the couple have two children: Edwin (28) and Lizelle (25).
At that time students helped out at the school on a voluntary basis and horses and ponies from the blood-group laboratory were used. The Alma School for Physically and Mentally Disabled children were dropped off in the afternoons, accompanied by both a physiotherapist and a teacher.

As things go, during exam time, the amount of student helpers would dwindle due to the academic pressure, except for a few stalwarts. It was therefore decided to make the school a part of the animal handling practicals. Once a week nine students would run the school using three ponies. This soon became compulsory and each student participated twice a year. The ponies would be haltered, groomed and then led around by one student, with another student on each side of the pony. When Medunsa was incorporated into Onderstepoort, the school was incorporated into the official animal handling practical periods. The size of the student group increased to 21 and seven horses were used. A morning group, run by nurses as part of their practical, was also started. This group was for very small children, usually under five years of age, and Shetland ponies were used.

The positive effect of riding for the disabled is well known: balance is improved, muscles are strengthened, joints are more supple and there is a marked improvement in the child’s morale. This fact was recently highlighted on SABC 2 in the programme Free Spirit.

The students are responsible for physically leading the horses around and are responsible for the rider. The school is very much appreciated by the visiting schools, who always report back favourably on the childrens’ reactions. However, the children cannot come often enough to truly reap the long-term benefits. However, a visit to the school is certainly a highlight for them. The other crucial role-players besides the children and the students are the horses themselves. Over time many things have changed and the school has lost many horses and ponies. The heroines of the school are Camelia, a 20-year-old Arabian mare, and Lady, a 14-year-old miniature pony. These two, the one for her small size and gentle spirit, and the other for her absolute bombproof and kind nature, are the heart and soul of the school, without them this outreach programme would not be possible. We salute them!
The clinic is managed by the Department of Production Animal Studies and the Veterinary Academic Hospital. Transport has up to now been a problem but thanks to a donation by Rand Merchant Bank and the Rag committee of the University of Pretoria, a larger vehicle is now used and more students are able to assist animal owners in the area.

The veterinary care provided differs from week to week, however the community's domestic animals are routinely vaccinated and dewormed.

The outreach clinic visited two areas in Makapanstad recently and several dogs were vaccinated and dewormed, as well as treated for respiratory infection and pyometra. We attended to a call from a subsistence farmer with a malnutritioned calf. The poor-doer calf was given rehydrating solution via a stomach tube as well as treated with antibiotics.

The outreach programme provides a beneficial interaction between the community of Makapanstad and the veterinary students of Onderstepoort. Each week veterinary students, veterinary nurses as well as foreign exchange students, under guidance of Dr AD Viljoen, are given the opportunity to learn to adapt their skills to reach out to a broad spectrum of communities.

According to Joline Jardim and Debbie Lightfoot, two final-year veterinary nurses, “We were fortunate enough to take part in the outreach clinic! We found the experience to be an excellent learning curve, as well as being very rewarding.”

We would like to take the opportunity to thank the generous people involved who make the outreach programme a reality, including Sr Smith and Sr Stadler, who ensure that the clinic is efficiently organised and maintained.

A glimpse into Onderstepoort’s outreach programme

By Prof Cheryl McCrindle

The Faculty of Veterinary Science runs a regular outreach clinic to the Moretele District.

A canine consultation with a veterinary nurse and Alaë Nortier, a visiting German student assisting.

Dr AD Viljoen in consultation.

An owner transporting canines to the veterinary checkpoint.

A canine consultation with a veterinary nurse and Alaë Nortier, a visiting German student assisting.

The Class of 1928 / 1929

This edition of OP News does not have a contribution from Dr Rudolph Bigalke. Dr Bigalke has done extensive research regarding two classes both with bearing on the year 1929. He has not been successful in finding out much regarding one of the graduates: FB (Felix) Wright.

To date, he has determined that Felix Wright was registered as a veterinarian with the South African Veterinary Council from 1933 to 1983 and that he worked in the Mooi River area in Natal. Dr Bigalke is of the opinion that Dr/Prof Sandy Littlejohn will be able to supply some info.

If you have Sandy Littlejohn’s contact details or know anything regarding Felix Wright, please send the details to Dr Rudolph Bigalke at rbigalke@lantic.net. OP News would like to wish Dr Bigalke a speedy recovery following further spinal surgery that he is about to undergo. Ed.
Everyone who represented OP on the sportsfield was rewarded with certificates that were sponsored by the Dean.

The following teams won their leagues: men’s cricket, women’s soccer and the 2nd women’s tennis side.

The Republic of Onderstepoort’s Senate again mortgaged itself to award a total of 36 PhD* certificates (one to each member of these teams). Those people who received special awards also received wine glasses.

The women’s soccer team won the Dean’s Trophy for the team of the year, as they took their league by storm and ended unbeaten.

The trophies for sportsman and woman of the year went to Murray Stokoe and Elmien Kotzé.

The Plakkerskamp Trophy for contribution to sport went to Matthew Robertson, the sport HK of 2004/2005, who played a major role in OP’s sporting success. Thanks to Chris van der Merwe from SVD (Scientific Veterinary Diets) for sponsoring the evening. The evening was a fitting end to a very successful sporting year for OP.

* Pretoria Hostel Destroyer

OP Sports Awards 2005

This year Onderstepoort entered 28 teams into the Tuks league. Six were crowned champions, four were runners up and no less than 16 teams reached at least the semi-finals!

Just in case • Emergency numbers

• Security Services (main campus) 6911 420-2310
• Flying Squad 6022 10111
• Police Pretoria North 6005 353-5666
• Ambulance:
  - Rosslyn 6003 541-3421/6
  - Pretoria 6002 326-0111
• Fire Brigade (Wonderboom) 6024 543-0335
• Tygerberg Poison Centre 6179 0211 931-6129
• Emergency Medical Help: OP
  - Sr Amanda Hamman (VAH) 8064 083 269 8874
  - Sr Riani de Kock (VAH) 8149 082 3329
  - Ms Anne-Marie Human (VAH) 8216 082 4833
  - Prof Frik Stegman (Feed Store) 8279 8148 (operating theatre)
  - Prof Ken Petrey (Ethology/Physiology) 8449 082 7356
  - Mrs Dalène Meyer (Anatomy/Physiology) 8212 082 374 1583
  - Psychologist at OP [Wednesday], Voula Samouris 8243 083 754 5427
  - Psychologist - main campus, Rina Buys 6126/6151 082 908 3688

In the case of an emergency just dial the four-digit number given above.