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Prof de la Rey shares the UP2025 Strategy

The Vice-Chancellor and Principal of the University of Pretoria, Prof Cheryl de la Rey, addressed the Faculty at an extra-ordinary Faculty Board meeting on 23 March. She shared the UP2025 vision, approved by Senate, that she has been instrumental in developing, with the Faculty. Prof de la Rey stated that UP should be a leading research-intensive university in Africa, recognised internationally for its quality, relevance and impact, and also for developing people, creating knowledge and making a difference locally and globally. She indicated that the UP Executive was committed to helping overcome the obstacles.

The meeting was well attended and the Faculty shared in the enthusiasm and welcomed the support for research. Some of the key points highlighted in Prof de la Rey's presentation included:

Five strategic goals structure the long-term trajectory of the University

1. To be a leading research-intensive university
2. To strengthen the University's international profile
3. To strengthen the University's impact on economic and social development
4. To pursue excellence in teaching and learning
5. To increase access, throughput and diversity

Research

- Start with areas of existing strength and recognition.
- Implement minimum research norms for all academic departments.
- Focus on unique local opportunities and collaborative research, and develop international profiles in areas of importance to developing nations, especially those of Africa.



Prof Cheryl de la Rey

- Maximise impact of research (and capacity) by concentrating on Institutional Research Themes (IRTs).
- Increase PG enrolment in research programmes, throughput and postgraduate students' contribution to UP's research output and impact.

Full plan available at: [http://web.up.ac.za/sitefiles/file/publications/2012/eng/STRATEGIC_PLAN_\(V11\)_13%20Feb.pdf](http://web.up.ac.za/sitefiles/file/publications/2012/eng/STRATEGIC_PLAN_(V11)_13%20Feb.pdf)

Berkeley team to collaborate with the Faculty

A distinguished research team from the University of California, Berkeley is currently in South Africa for the launch of a new research project in Limpopo province. Prof Brenda Eskenazi, a Professor of Maternal and Child Health and Epidemiology and Director of the Center for Environmental Research and Children's Health (CERCH) at the School of Public Health and Dr Jonathan Chevrier of Divisions of Epidemiology and Environmental Health Sciences is collaborating with Prof Riana Bornman and Prof Tiaan de Jager on an US NIH funded project.

The project will investigate the effects of pesticides used for malaria vector control on neurodevelopment of new-born babies. This is a five year project and will create a lot of opportunities for post-graduate students in the Faculty. See page 3 for more information.



From the Dean's Office



Dear Colleagues,

This Faculty Newsletter once again provides a snapshot of a vibrant Faculty expressing its diversity in teaching, research and caring. The articles speak for themselves, so I will use my message to explore a few developments in the Faculty.

In the national interest, the University is committed to increasing our student intake, starting with medical students. To this end, we have been engaging the Department of Higher Education, the National and Gauteng Departments of Health and the National Health Laboratory Service to get the support we need. We will need to expand our facilities, extend the service learning platform, employ more basic medical science staff and bridge the loss we make on every medical student we admit. I think that the Ministry of Health feels assured of our commitment and understands that we cannot expand without these needs being met.

Our efforts to support research are beginning to bear fruit. I am particularly pleased with the response to the Clinical Research Fund. The Fund allows us to buy out clinician's time from Gauteng or the NHLS for you to focus on starting up or completing a PhD or to complete a journal article. We are encouraging more proposals. The arrangements are flexible, but at the heart of it is that you get special paid leave while UP pays for a contract replacement to meet your clinical responsibilities. We can also reimburse lost overtime. All we need is a letter explaining your plans and the costs that we need to cover, submitted with the support of your HOD.

The Vice Chancellor has also just announced a special fund for academic staff to complete post graduate qualifications – Masters or Doctorates. This is a unique opportunity to advance both yourselves and the Faculty and shouldn't be missed.

We are excited to have welcomed a number of top researchers into the Faculty this year and look forward to their contribution. Their key mandate is to help grow research, support our staff and supervise postgraduate students. I think any Faculty would be proud to welcome in their midst researchers of the calibre of Professors Bob Swanepoel, Bernard Fourie, Cheryl McKindle, Una McIntyre and Leo Braack.

In the Dean's office we are very aware of the stresses our clinical staff are experiencing in the face of the financial crisis in both the Gauteng Health Department and the National Health Laboratory Service. We realise that not being able to provide your patients with the care they need is personally stressful and also damaging to our academic programme. I can assure you that my office is in constant contact with both

Gauteng and the NHLS, seeking to address problems of payment to suppliers, filling of posts and a host of related matters.

Both our Vice Chancellor Professor de la Rey and our Vice Principal responsible for Faculties, Professor Robin Crewe are appraised of the situation and working with us for their resolution. Prof de la Rey met recently with the Gauteng HOD. Two positive signs are the initiative in Gauteng to pool funds from other Departments for Health and to pay off debts and the pending arbitration ruling in the dispute between KZN and the NHLS.

I trust you are all seeing the progress made in improving facilities on our Prinshof Campus and also at Weskoppies and Kalafong. We look forward to launching the IT Lab and the Walkway Project in the near future. I know that there are many staff who can't wait to get one of the 46 covered parkings that will become available. We will soon also have WiFi in the Faculty, something that we have agitated for over the past year.

Ours is a Faculty in which a lot is happening. I urge you to please submit your stories to our Communications Manager, Jane Moshoeshoe. You can either submit a draft article or simply inform us of something you think we should be writing about. I know many of our Faculty are hesitant to make their successes more public, but it is really in the Faculty's interest for us to show the full value that we offer to our University and Society.

Warm Regards,

Prof Eric Buch,
Dean: Faculty of Health Sciences

STORY SUBMISSIONS

If you would like to see your department and the staff members featured in the next issue of Health Science Matters, please send your story and pictures to Jane Moshoeshoe at jane.moshoeshoe@up.ac.za or Marianna Kotze at Marianna.kotze@up.ac.za. The next issue will coming out end June 2012 and the **closing date for submissions is 18 June 2012**. For more information, you can contact us on **012 354 1669 /1386**

Berkeley team to collaborate with the Faculty

(continued from page 1..)



From left to right: Dr Jonathan Chevrier, Prof Tiaan de Jager, Prof Brenda Eskenazi, Prof Eric Buch

The international guests also took part in the programme of World Malaria Day on 25 April. This event was organized by the Student Forum of the UP Centre for Sustainable Malaria Control. The programme also included another international speaker, Prof Richard Haynes from the Hong Kong University of Science and Technology.

Prof Ayo-Yusuf to serve on the inaugural steering committee of the newly launched African Center for Tobacco Control

Prof Lekan Ayo-Yusuf, the Associate Professor from the Department of Community Dentistry has been nominated by the Minister of Health, Dr Aaron Motsoaledi, to represent South Africa on the steering committee of the Centre for Tobacco Control in Africa (CTCA).

The Centre for Tobacco Control in Africa (CTCA) was established in the African Region to support governments to build and sustain capacity for tobacco control in Africa. The CTCA is funded for three years by the Melinda and Bill Gates Foundation through WHO Tobacco Initiative (TFI) and is hosted in the School of Public Health at Makerere University in Uganda.

The CTCA was launched in November 2011 and in its initial project will support five countries namely; Kenya, South Africa, Angola, Mauritania and Uganda. The mission of the CTCA is to pool evidence, build partnerships, mobilise resources, build capacity and create tools to advance tobacco control in South Africa.

The main aim of the CTCA is to reduce the burden of disease due to tobacco use by supporting governments in implementing evidence based tobacco control strategies in Africa. The CTCA will be managed by

a secretariat that will be supervised by the steering committee that will include representatives from the five project countries and representation will be rotational every two years. The steering committee will meet bi-annually.

The terms of reference of the Steering Committee will include:

- General oversight of the programmes and strategic direction;
- Approval of business, performance management and annual/budget plans;
- Review and approve annual reports, including technical, financial and audit;
- Promote networks and partnerships;
- Approve annual work plans and budgets;
- Set standards for quality assurance of products and services, and
- Mobilise resources and sustain planning.

This nomination confirmed the Faculty of Health Science's leadership role in tobacco control research and policy support. The commitment at the recent UN summit of governments around the world (including the South African government) to reduce the burden on non-communicable diseases (NCDs) means



Prof Lekan Ayo-Yusuf

the work of the centre in tobacco control would be of vital importance for our region.

"It is my hope that I will be able to direct the work of the centre to developing capacity of more governments in our region to implement evidence-based interventions recommended in the WHO Framework Convention on Tobacco Control" said Prof Ayo-Yusuf when asked what he hoped to achieve by the end of his term with CTCA.

Centre for Sustainable Malaria Control (UP CSMC) commemorated World Malaria Day



Members of the UP CSMC with invited international speakers.

From the left: Bianca Verlinden (Coordinator: UP CSMC student Forum); Prof Brenda Eskenazi, (University of California, Berkeley), Prof Riana Bornman (UP CSMC), Jonathan Chevrier (University of California, Berkeley), Prof Lyn-Marie Birkholtz (UP CSMC) and Prof Richard Haynes (Hong Kong University of Science and Technology and North West University).

On 25 April 2012, the Faculty's Centre for Sustainable Malaria Control (UP CSMC) commemorated World Malaria Day. This year's celebration of World Malaria Day aimed to raise awareness for the fight against malaria. The motto for World Malaria Day 2012 was: 'Sustain gains, save lives: Invest in Malaria'.

The University and the UPSCMC is supporting efforts towards sustainable malaria control. The Centre is a multidisciplinary group of scientists focusing their expertise to generating new knowledge to support sustainable malaria control. While malaria is currently under control in South Africa, this is a fragile balance and a malaria-free South Africa will only be possible with continued concerted efforts.

The UPSCMC was fortunate to have distinguished international experts visiting South Africa during April 2012 and who were willing to enhance the efforts of the UPSCMC. Prof Richard Haynes (PhD), Professor in the Department of Chemistry, The Hong Kong University of Science and Technology, China was Visiting Professor at the North West University, Potchefstroom Campus. Prof Haynes has extensive understanding of the history how, from Qing Hao, an herb of antiquity, artemisinins, developed to the amazing antimalarial drugs over time. His discussion was followed by Prof Brenda Eskenazi (PhD), Professor of Maternal and Child Health and Epidemiology, Director of the Center for Children's Environmental Health Research, School of Public Health, University of California, Berkeley, USA on 'Indoor residual spraying pesticides and child development'.

Professor Eskenazi is the internationally recognised world leader on Paediatric Environmental Health and is currently at UP for the start-up of an NIH/NIEHS (National Institutes of Health/Institute of Environmental Health Sciences) funded project. This study will run over 4.5 years in collaboration with Prof Riana Bornman (Adjunct-Principal Investigator) and Prof Tiaan de Jager (Director UPSCMC, collaborator) on *IRS pesticides and neurodevelopment* in the malarial area of Limpopo Province. Prof Eskenazi's presentation was followed by Dr Jonathan Chevrier (PhD), an epidemiologist also from the Center at Berkeley and Research Coordinator for the new study.

Dr Chevrier introduced the VHEMBE Study (Venda Health Examination of Mothers, Babies and their Environment). The study will follow a cohort of 750 new-borns and their neurodevelopment will be assessed over a two years period.

Nursing's COP Outreach Programme

The Community of Practice (CoP): *Interventions for Practice Development* of the Department of Nursing Science adopted the Tshwane Medico-Legal Crisis Centre in June 2011. The Tshwane Medico-Legal Crisis Centre is currently located between the Steve Biko Academic Hospital and the Tshwane District Hospital. It originated from the Skinner Street Clinic, Pretoria, but it was relocated to its current location in 2005 where it continued to operate during office hours only. However, as the demand for medico-legal services increased, a 24-hour service was started on 1 July 2008. The dedicated health care professionals at the Crisis Centre attend to an average of 200 clients per month who are exposed to various forms of violence. Medico-legal services are rendered for sexual assault (for males, females and/or children), domestic violence, age assessment (Tanner Staging), blood alcohol investigation and DNA testing. An average of 10 (5%) children are attended to per month in all the aforementioned combined categories.

The first steps included the building of a relationship between the members of the CoP and the health care professionals. After numerous informal contact sessions at the Crisis Centre, the health care professionals conveyed their needs. One of the needs identified was the poor condition of the work environment in which they practice on a daily basis. Consensus was reached that upgrading their working environment would be the first priority and that we would start with the surrounding garden. Working on two Saturdays in April 2012, the CoP members and volunteers enthusiastically created an improved the aesthetic appearance of the garden. They dug, fertilised and planted evergreen shrubs and plants. It was agreed that it is the responsibility of the Crisis Centre members to water and maintain the garden. The garden and relationship are growing steadily! Together, the COP members and the Department of Nursing Science are planning further upgrades to the work environment as well as informal education, interventions and research to develop practice.



Department of Orthodontics turns 50!!



Academic and support staff in the Department

The Department is responsible for the teaching and training of Orthodontics at both an undergraduate and postgraduate level. At the undergraduate level, Orthodontics commences at the start of the third year and continues through to the final year of the BChD curriculum.

Postgraduate courses that are on offer include a Postgraduate Diploma in Dentistry (Orthodontics), a MScDent, a MChD and a PhD. The minimum duration of the Postgraduate Diploma in Dentistry (Orthodontics) is one year and this course is usually oversubscribed with an average success rate of three graduates per annum. Distance learning by means of the electronic media is standard practice in the Department and students from as far as Namibia, Zimbabwe and Kenya have completed this course. The MScDent course has a minimum duration of two years part-time study with the presentation of a major dissertation at the final exam.

The MChD course is a full-time four-year speciality program and the Department

trains four students at a time. All students who are selected to take the course usually qualify within the stipulated term. In the 50 years of its existence 46 registrars qualified as orthodontists and eight of these specialists advanced to become Professors at Dental Faculties in South Africa. The Department also benefits from the expertise of enthusiastic consultants who unselfishly dedicate their time and effort to develop and promote future orthodontists. Notable among the consultants are: Profs Matie Grobler and Piet Botha, Drs Pierre Ferreira, Bertus van Niekerk, Lourens Pretorius, Johan Hatting, AK Seedat, Birgit Scherman, Robert Drummond, Shahide Choonara, Colleen Forsberg and Alfred Dippenaar.

In order to meet the high demand for orthodontic treatment and reduce the long waiting period for treatment, the Department has introduced a Polyclinic where patients, particularly children

with an urgent need for treatment, are prioritised. The treatment time rendered in this clinic does not exceed six to nine months and is aimed at maximising the psychological comfort that orthodontic treatment provides to the developing child.

The thrust of research in the Department is focussed on facial aesthetic perceptions among the diverse racial groups in South Africa as well as to explore and develop cost effective treatment modalities. This research theme will enable us to identify and value the orthodontic treatment needs of different population groups and to make orthodontic treatment accessible and affordable to all. Local and international conference presentations by the Department staff are encouraged and representation by a staff member is made on an annual basis. The department also publishes one journal article each year, with the anticipation of publishing more in the future.

Department of Orthodontics

turns 50!!

(continued from page 5)

The rich history of the department started in 1951 when Orthodontics was introduced at the University of Pretoria as a subdivision of the Department of Conservative Dentistry. Prof John Frederik van der Sandt de Villiers spearheaded this process and became the first senior lecturer and Head of this subdivision.

John Frederik van der Sandt de Villiers was born in 1909. He obtained the following dental qualifications: LDS and RCS (England), MDS and DPP (Rand) and Certificate of Training in Orthodontics (Columbia). In 1951 he received a part-time appointment at the University of Pretoria, after which he became a lecturer, senior lecturer and finally Professor in the Orthodontic Department which was formalised in 1962. Prof van der Sandt de Villiers filled the post as Head of the Department from 1963 to the end of 1967 after which he was succeeded by Professor Matie Grobler.

Prof Grobler was a senior lecturer in the Department of Orthodontics and from 1968 until 1975 he assumed the position as Head of the Department. He designed and implemented the new Orthodontic Department and has been involved in the teaching of under- and postgraduate students for the past 54 years. He obtained his BChD from the University of Pretoria in 1955 followed by the DPO, RFPS from Glasgow and his MChD from the University of Pretoria. Although retired, Prof Grobler is still actively involved with the training of registrars as an Honorary Professor.

In 1976, Prof Grobler was succeeded by Professor Salomon Theodorus Zietsman. Prof Zietsman was born in 1928 in the Orange Free State. He obtained the BDS degree in 1961 and a Dip Dent in 1963 at the University of the Witwatersrand. He also completed a Diploma in Public Health in 1967 and the MChD in Orthodontics at the University of Pretoria. In 1982 he became the full-time Dean of the Faculty of Dentistry and was succeeded in 1983 by Prof Johan de Mûelenaere as the Head of the Department of Orthodontics. Prof de Mûelenaere resigned in 1992 to enter the private sector, but was retained as an Honorary Professor in the Department.

Prof de Mûelenaere was instrumental in adding an international flavour to the Department. In 1990 the Department of Orthodontics liaised with the University of Ghent in Belgium and a multicentre study was undertaken to evaluate the skeletal relapse in orthodontics. At the end of 1992, the Department consisted of three Honorary Professors, namely Proff de

Mûelenaere, Grobler and Nel; one visiting Professor, Prof Mizrahi from the University of the Witwatersrand, and five visiting Specialist consultants. A full-time lecturer post was filled by a non-specialist who was mainly involved in undergraduate training. There were also four posts filled by registrars in the department.

New courses such as the MSc(Odont) and Dip(Odont) were introduced in Dentistry for non-specialist study in Orthodontics and a number of postgraduate students enrolled for these. In 1992, Honorary Professor in the Department of Orthodontics, Prof SJP Nel obtained the PhD(Odont) degree. This was the first doctoral degree achieved in the history of the Department of Orthodontics at the University of Pretoria.

From 1993 Prof William Wiltshire became the acting Head of the Department until his permanent appointment in 1994. He made a remarkable contribution to the local and international development of the Department and it was a setback for the Department when he resigned at the end of 1997 to take up a similar post at the University of Manitoba in Canada. Prof Wiltshire delivered numerous national and international presentations and received numerous prizes and awards. Fifty seven publications, 82 abstracts, 10 introductory articles and eight letters written by him appeared in print. He was the promoter for many postgraduate students and often served as external examiner. Under his tutelage training was revised by the re-curriculum of undergraduate courses in Orthodontics as well as post-graduate courses.

During his tenure the department retained and extended its association with other institutions, and the first two foreign candidates registered for the post-graduate course. Prof Wiltshire also initiated transformation within the Department through the intake of candidates from previously disadvantaged communities.

In 1998 Prof Zietsman the Faculty's former Dean, returned to serve as Head of the Department after Prof Wiltshire's departure. Prof Zietsman served as Head of the Department until 2000 when, as a result of poor health, Dr An-

toinette du Toit acted on his behalf. Prof Zietsman's passing in 2006 was a sad loss to the Department and Orthodontic fraternity.

Dr du Toit served as acting Head of the Department and was supported by Prof Piet Botha who directed the MChD program until the position was permanently filled in 2009 by Prof Phumzile Hlongwa who became the first Black female in the country to hold this position. In 2010 however, Prof Hlongwa was appointed Head of the School of Oral Health Sciences at the University of Witwatersrand and Prof Salahuddin Dawjee now occupies the seat as Head of the Department. He is a senior specialist accredited with five degrees in Dentistry inclusive of a PhD.

The supporting full time academic staff in the Department consists of Dr F Suliman (Lecturer) Dr M Motsepe (Dentist) and Ms M Motsepe (Oral Hygienist). Several consultants also tutor the MChD students on a session basis. There are three assistants namely Mss R de Wet, K Mathabane and L Masango who manage, help and support the students and patients in the clinical wards. Mrs Yvonne Skinner, the Department secretary administers the organizational and clerical tasks as she has diligently done for the past 29 years. It is mandatory for all academic and support staff in the Department to attend job specific continuing education programs offered by the University in order to develop themselves and improve the Department.

The Faculty of Health Sciences would like to wish the Department of Orthodontics well on this milestones and is looking forward to many more years of excellent academic training and development of the students who want to pursue a career in this field.

Family Medicine Scoops Rural Health and Distinguished Visitor Projects Awards for Mpumalanga

The Faculty's BCMP (Clinical Associate) programme registered the first students in 2009 and the first 44 students graduated in April 2012. A large number of Clinical Associate students work and train in district hospitals in Gauteng and Mpumalanga. While they study they render a service to the community in that particular district. Some district hospitals have up to 10 Clinical Associates and they work in various departments in 20 different hospitals in three different provinces.

The Department of Family Medicine sees this programme as a primary health care outreach programme to short-staffed rural / semi-rural and other hospitals. By the end of 2012 about 150 students will have rendered more than 30 hours per week service in often short staffed hospitals. They do this 30 weeks per year and in this way the department makes a big contribution to strengthen the medical teams serving rural and peri-urban communities.

The Family Medicine Department recently received two Awards from the Discovery Foundation amidst stiff competition, one is the Rural Healthcare Project Award (*R500 000*) for the furnishing and putting up ICT infrastructure for the interprofessional and interdisciplinary Clinical Learning Centres (CLC's) for Primary Healthcare in Mpumalanga. The second award was to cover the programme costs for Distinguished (Academic) Primary Care Visitors to run mentoring, skilling and training workshops at the centres. While the Clinical Associates will be the primary beneficiaries of these centres, nurses and medical students as well as other UP students of the healthcare team will also benefit from the centres.

Another way the programme engages the Mpumalanga community is by involving it in the selection of new students for the programme. The philosophy of this programme is that students from rural communities will be accepted in this programme and go back to serve their communities after they qualify. This year an attempt has been made to involve all training centres in Mpumalanga with the selection of new students in order to get a better distribution of candidates from the whole province. The majority of the students intend to practice in a rural environment after they qualify.

Family Medicine together with AIHA host the Gala Dinner for the first class to graduate with BCMP

The Faculty of Health Sciences, in partnership with the American International Health Alliance (AIHA) Twinning Centre and the twinning partner Arcadia University (USA) hosted a Gala Dinner at the HW Snyman Building to celebrate the first class of Clinical Associates that were due to graduating with the Bachelor of Clinical Medical Practice (BCMP) on 12 April 2012. The graduation was taking place on Friday 13 April 2012.

The Clinical Associate Programme was introduced at the University of Pretoria in 2009 in response to the National Call for these Mid-Level Health Professionals as a strategy for increasing the Primary Health Care Workforce in South Africa. The significance of this graduate class is that the Clinical Associates will be helping to strengthen the health care system that has been ailing when it comes to health clinicians which has been caused by the shortage of doctors in district hospitals.

As a first group to graduate with BCMP, they will not only be walking away with a qualification and the highest standard of hand-on experi-



Prof Buch receiving a partnership certificate from Dr Michael Dryer, Chair of Department of Medical Sciences & Community Health at the Arcadia University (USA)

ence, but will also be the pioneers in the field who will set the standard for future clinicians.

UP has produced the highest num-

ber of qualified BCMP since the inception of this programme in South Africa. The Faculty of Health Sciences is really proud of this achievement.

Poem about the UP Clinical Associate Programme

*Brilliant ... and how similar to the cycle of life!
Wanted but time not planned;
Parents joyful at birth, but with a question:
What is to become of this **neophyte**?*

*The Father wants nothing but **the best**
He gathers bright teachers from town and far;
Over the seas he flies in pursuit of wisdom.
And from distant lands brings the wise.
“Innovation and new learning methods”,
All of them say, “Is the **only** way!”*

*Like children, they surprise
With enthusiasm and innocence they **learn**.
Wow, they have **potential**!
They also disappoint and get a talk.
Most listen fast, except a delinquent or two.*

*They **assist** overworked **doctors**
Who all want to give them distinctions!
But the **mentor** warns: not too much too soon;
We want **quality life-long learners** here!*

*And as the journey continues;
Government waits.
Is the direction right?
We promised **The Patient**:
We’ll deliver service in **Health and Care**.*

* * * *

Written by **Dr Philemon Mahuma**
Family Physician and Lecturer for BCMP

The poem was written as a reflection as mentor of
3rd year Clinical Associates undergoing training at Tshwane District Hospital

Radiography engages the staff of the clinical department

The BRad degree programme entails the integration of the theory which is learnt in class and clinical experience which is gained in accredited training hospitals. This integration necessitates a collaborative relationship between the academic and clinical environments. To enhance the relations and to ensure that the students' needs are catered for adequately, the Department of Radiography organized a clinical assessment workshop. The workshop was held on Saturday the 24th March 2012 at the Steve Biko Academic hospitals.

Radiographers from the following accredited training hospitals took part; Steve Biko Academic, Tshwane District Hospital and Pretoria West Hospital. The facilitation of the activities for the day was handled by Dr Pickworth from the Department of Education Innovation and

Ms Tredoux of the Faculty's Education Office.

The objective of the workshop was to ensure that the people involved in conducting the clinical assessments on students, should have a clear and similar understanding of what is expected of them. The expected outcomes were that there will be cohesion in the assessment methods between academic and clinical training sites, standardized approach to assessments throughout, from first to third years of study. Other outcomes were that the role of the various staff members be clarified and finally enhance competencies in terms of mentoring, supervision and assessment of students.

To enhance the importance and understanding of the need to be consistent in

conducting assessments in the clinical environment, delegates were given a task to build a tower using four sheets of newspaper. As can be seen in the pictures, the guidelines were interpreted differently by the various groups.

The facilitators later clarified the guidelines and the delegates realized that without clear understanding of what is expected of an assessor, one can easily make mistakes. At the end of the workshop, the feedback given by most of the delegates was that it was an exciting way to learn. They appreciated the opportunity and they recommended that such workshops be held at least twice a year.



The two facilitators Dr Pickworth and Ms Tredoux



Satisfied with the tower, from left is Ms Sethole, Ms Renison, and Ms Mabidilala



Discussing how their tower should be are Ms van Niekerk, Ms Hugo and Ms Telfordt



Active engagement in building the tower from left to right: Ms de Vos, Ms Viljoen, Ms Jacobs and Ms Leeb

OT's Post Graduate Diploma in Vocational Rehabilitation



Tania Buys with the class of 2012

March 2012 saw 22 eager and excited occupational therapists arrive for the first week of the Post Graduate Diploma in Vocational Rehabilitation. Students are carefully selected in order to reflect various practice settings within the area of

occupational therapy vocational rehabilitation including private practices, private rehabilitation settings, public hospitals, schools for learners with special education needs, municipalities, community settings, mining environments and academia.

It is the Department of Occupational Therapy's experience that diversity of practice settings maximises learning opportunities and support. Students register for the programme from all over South Africa and there is even a South African occupational therapist who travels from Saudi Arabia to attend classes.

The Department of Occupational Therapy implemented the Diploma in 1997 and it is the only skill based post graduate programme in South Africa. Key to the success of this programme is that the lecturers remain on the cutting edge within their areas of expertise and are actively involved in practice, education and service delivery.

Tania Buys has coordinated the programme since its inception and presents the Work Study and Vocational Rehabilitation Modules. She frequently presents at congresses and workshops addressing the topics of vocational rehabilitation and disability equity implementation including the last two annual SASOM

conferences. In 2010 she was selected by the WHO as one of 23 international vocational rehabilitation experts, across disciplines, to attend an ICF consensus conference in Switzerland during which Comprehensive and Core sets for Vocational Rehabilitation based on the ICF were selected.

Enos Ramano, an Occupational Therapist in private mental health practice presents the Groups Module. Enos, a graduate of the Post Graduate Diploma in Vocational Rehabilitation, also frequently presents papers at conferences and workshops and has recently completed his Masters Degree in Occupational Therapy at the University of Pretoria.

Martin Buys, a chartered accountant presents the Financial Administration Module and facilitates appropriate financial skills training in marketing, taxation and business related aspects. As a successful business man who lives with a disability, he is an exceptional role model for the students in terms of disability equity implementation.

The Department of Occupational Therapy wishes its DVR class of 2012 success in their studies.



Training in work samples



ClickUp training

The Paediatric UPdate keeps getting better!



The 4th Annual Paediatric UPdate

The Department of Paediatrics and Child Health of the Faculty of Health Sciences in collaboration with the South African Paediatric Association again hosted an UPdate in Paediatrics during the weekend of 9th -11th March 2012. This Update was a resounding success which exceeded all expectations, compared to the humble beginnings in 2009, and established UP as an esteemed teaching facility.

This year there was an overwhelming response from the pediatric fraternity who wanted to attend the UPdate. More than 200 delegates attended. A workshop on Paediatric Intensive Care was a new addition to the meeting this year and was so popular that it was oversubscribed almost twice. The organizers had to scurry to make last minute arrangements to accommodate everybody. Delegates came from all over the country with some from as far away as Canada! This confirmed that UP has grown into a well-established beacon of continuing medical education in the north and that there is a growing need for physicians to attend such events that are conveniently nearby.

The UPdate originated in 2009 under the supervision of Prof Dankwart Wittenberg,

then Head of the Department of Paediatrics, as an event to celebrate the University of Pretoria's centenary. Since then the UPdate has become an institution under the guidance of Prof Robin Green, Head of the Department of Paediatrics and Prof Theunis Avenant, Clinical Head at Kalafong Hospital. Now it has grown into an annual meeting that provides information and insights into recent developments in the field of Paediatrics.

This initiative has proven to be the right decision and the support from everybody, delegates and sponsors included, has been growing exponentially over the last few years. Similar meetings are held elsewhere in the country, but because of time constraints and rising costs for delegates, annual events in our own region are highly sought after.

Each year the disciplines change and Divisions of the Department are given a platform to present advances in their fields together with invited speakers from local and abroad, who are recognised leaders in their fields. This year sessions were devoted to paediatric radiology, cardiology, neurology, allergy and common paediatric problems. The ethics



session highlighted the child care act and palliative care. The standard and quality of all the presentations were excellent and Prof Green proudly mentioned that the presentations equalled and surpassed those of many overseas functions that he had attended over the years.

Highlights during this Update were:

- HIV changes the radiological picture of tuberculous meningitis and encephalitis;
- New drugs are being investigated for neonatal seizures with some real exciting possibilities for the near future;
- Some food allergies could most likely be prevented when allergenic foods are introduced at 4 month of age and not later;
- Allergy and asthma may have other etiological factors contributing to their development;
- Communications between doctors and their patients from the mother's perspective.

For more information on the presentations please visit the Paediatric website:

<http://web.up.ac.za/default.asp?ipkCatego-ryID=16051&sub=1&parentid=877&subid=890&ipklookid=8>

QR code for the Paediatric website:



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Weskoppies Hospital library gets much needed attention!!

The library facility at Weskoppies hospital started many years ago as part of the Transvaal Department of Health and due to neglect, turned into a store room with old, outdated books - and furniture such as beds and ward screens. The Department of Library Services of the Faculty of Health Sciences had the opportunity to recreate an active and dynamic facility.

The goal was to establish an information centre for undergraduate and postgraduate students, staff of the Department of Psychiatry and the Psychologists at Weskoppies Hospital; to provide an appropriate and efficient service and tailor-made services in training clients in the use of information literacy tools; to deliver information services that support research, decision-making and service-delivery and to provide a professional information service by the Information Specialist at the Medical Library on a regular basis.

The neglected facility was transformed with hard physical work, soap, water, an obsessive cleaning habit and a lot of determination. Magriet Lee and Abel Maboko

spent two mornings in November 2011 in the library to identify and sort out the mess. Books and journals were on the floor and on the shelves and had to be sorted book by book and journal by journal.

They discovered a few gems in the (mainly) rubbish. First editions from 1897 and the early 1900's were buried under all the other stuff and will now be on display in the recreated library. Hospital staff removed all the books and journals and after a cleaning session by some of the local cleaners, furniture from the Merensky Library's store room changed the library into a study facility.

The Faculty of Health Sciences is responsible for the IT infrastructure and computers and as soon as the security issue is sorted out, 7 new computers will be installed. Air-conditioning is also on the list. The Information Specialist for Psychiatry visits the library on a bi-weekly basis on Fridays. Services available are follow up on emails, attending academic discussions, literature searches, new books will be available and can be checked out; staff

and registrars can return and renew books; training in and marketing of new products; assists with literature studies and referencing of protocols, articles, theses and dissertations, provide contents pages of current journals and collect and deliver library-related mail.

The infrastructure for the computers is already available and the students use the facility with their laptops. The library will be managed virtually and no books or journals (apart from the old books discovered and donated SA journals) will be housed in the library. Electronic resources are available and new packages are currently available on a trial bases and will probably be subscribed to in the near future.

Magriet Lee from the Department of Library Services had this to say; *"This is a true opportunity for embedded librarianship and it is a privilege to provide a personal service to one of the Departments with high-level research outputs in the Faculty"*.



The Weskoppies Hospital Library before (left) and after (right) the clean up

Innovative way of training mine workers



The Board Game

During 2011 a project commissioned by the Mine Health and Safety Council (MHSC) was completed by a multidisciplinary team led by Dr Nico Claassen of the School of Health Systems and Public Health. The other members were: Dr Kirstie Rendall-Mkosi (SHSPH), Ms Bettie de Kock (Merensky Library) and Ms Ginny Stone (Consultant on game development).

The aim was to develop a new medium for teaching basic concepts on heat stress at the mine training centres where induction training is done. The research team carried out a situational analysis of the existing training in heat stress at five mine training centres (4 gold and 1 platinum mines) and reviewed the relevant SAQA unit standards. Trainers were interviewed, training sessions were observed and existing material was collect-

ed as part of the situational analysis.

A board game was then designed consisting of the board, question cards, a master answer sheet with explanatory pictures, counters and dice. The questions mainly focused on the recognition and management of heat stress when underground and the preventive strategies that should be adhered to. All the questions were translated into Zulu and Sotho. The process of the game is that 4 to 8 players (individually or in teams) move around the board through different sections of the mine according to the throw of a dice and have to answer questions as they progress. Money ('mine moola') is received for each correct answer and the winner is the person or team with the most money.

The prototype was initially tested with mine safety representatives, and thereafter tested with mine workers at the participating mines. Thereafter a total of 200 workers completed a before and after knowledge test and participated in playing the game in a classroom environment at the mine training centres. A total of 27 underground mine workers also participated in a follow-up testing phase 2 months later. The results of the tests, as well as focus group discussions, provided an indication of the effectiveness and acceptability of the game as a training medium.

There was an overwhelmingly positive response from the workers and the

training facilitators during the focus group discussions held at each mine after they had played the game. It was agreed that a balance between learning new concepts and enjoying the game with their co-workers had been achieved. They all felt it would be relevant and novel to include in the training centre environment, and offered suggestions for improvements to specific aspects of the game.

The main test result was that underground mine workers scoring less than the 30th percentile (70%) in the pre-test showed a significant improvement (pre-test = 58.7% vs post-test = 74.4%, $n = 47$, $p = 0.0001$) during the post-test compared to those scoring more than the 30th percentile in the pre-test (pre-test = 79.3% vs post-test = 80.3%, $n = 129$, $p = 0.3657$).

It was therefore concluded that the game can be used as a novel approach to teaching and reinforcing basic heat stress knowledge for mine workers, and that the MHSC should make game sets available to all the mines in the country.

The MHSC, mining houses, participants, and BE@UP are acknowledged for their support in this project.



Mine workers playing the board game during one of the training sessions.

Department of Prosthodontics raises R32 000 for CANSA!

The Department of Prosthodontics staff from the School of Dentistry set up a challenge amongst themselves for a Shavathon to be held on the 2nd March 2012. They managed to recruit 7 brave / gullible volunteers to go bald for CANSA. The participants included: Profs Sykes and Dullabh, Drs Lekay-Adams, Mzobe and Wiid, and Mr. Du Plessis and Motsepe (who agreed to shave off his dreadlocks!). The competition was to see who could get the most sponsorship from family, friends, colleagues, students, dental representatives or ANYONE else who was willing to give. They had three weeks to prepare for the event, to get sponsorship, and to build up spirit and enthusiasm amongst the rest of the dental school.

Sponsorship and canvassing was initially slow. However, the stakes were raised when Dr. Wiid volunteered to create a sculpture specifically for the event and to donate it to the person who raised the most money. Each recruit kept a record of their own progress and placed their pledg-



es in specially made tins. They also collected many donations from the dental representatives and other staff members to use as spot prizes on the day, as well as two tickets to The Phantom of the Opera which were raffled and deservedly won by Ms Ursula Jooste.

A special thanks goes out to the following Dental companies who joined in with the spirit and gave very generous donations to this worthy cause: Nobel Biocare; Wright Millners (Thanks to Mark Mathias and Irma Wiggill for all their enthusiasm prior to, and on the day), Southern Implants, Dr Izanne Wiid, Dental Warehouse, Nova Dent, Deudent Laboratories, Schoenitz Dental, AL

Dental laboratories, and Oral B. A special thanks to Mark Mathias from Nobel Biocare who pledged a large sum on CONDITION that he personally be allowed to shave Prof Dullabh's head, this was needed as Prof D was in danger of cold foot syndrome!. He subsequently ended up turning half the team in "Mathias-look-alikes".

The event was a great success supported by a huge turnout of staff, students, dental representatives, family, friends and patients. Cookies and cold drinks were provided to all, and spot prizes were handed out throughout the morning. Only ONE of the team got cold feet, actually his girlfriend refused to allow him to shave, and so she was made to pay a forfeit, and he had to wear silky shorts for the duration of the day! Prof Sykes fought hard to secure the winning "Wiid creation" – a stunning and aptly crafted pair of scissors named "Snowite" – however, it must be added that the competition was close and fierce.

In total, over R32 000.00 was raised for CANSA – and handed over in the form of a BIG cheque to Miemie du Plessis from CANSA on the day. Special Thanks to the Dean, Prof Ligthelm for allowing the Shavathon to take place; to the entire prosthodontics staff who all entered into the spirit of the competition from day 1, encouraged and supported us during the build-up weeks, and helped out in so many ways on the day; to Mr Parsons who was an excellent MC, Garth Lowe and Henriette Rothmann our photographers, and to EVERYONE else who contributed towards the occasion and ensured that the day was both fun and a huge success.



The anxious team before the big shave (from left to right):
Prof Dullabh, Prof Sykes, Dr Mzobe, Dr Lekay-Adams, Mr Du Plessis and Dr Wiid

Department of Prosthodontics raises R32 000 for CANSA!

(continued from page 15)



Mark Mathias getting revenge on Prof Dullabh's head



Francois and Izanne – buddies till the end



Thorn among the roses, Aseye between the stunning new gals Lekay-Adams and Mzobe



A few brave sprayers... Ursula Jooste works her magic on Yvonne Edwards



Ursula with the winning raffle tickets

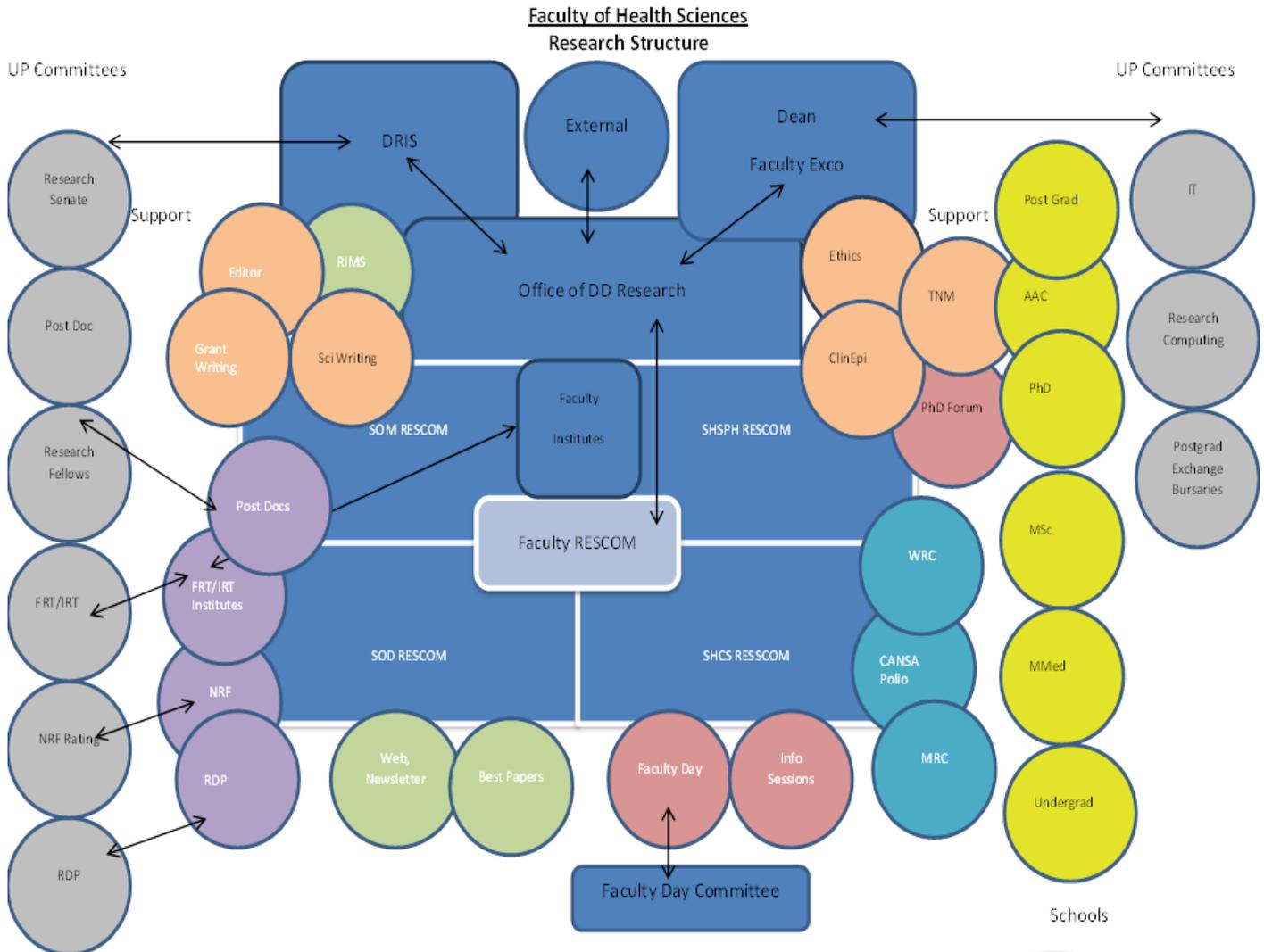


The Winning TEAM

RESEARCH ONE-STOP

Faculty Research Structure (aka the Smartie box)

In order to stimulate a research culture and to be able to support research more effectively in the Faculty, it was decided to develop a new structure for research management and support. Faculty RESCOM will now not only accommodate representatives from each of the four Schools, but in addition the Chairperson of the new Sub-committees will serve on RESCOM. The five new committees will deal with External Funders, Research Development, Research Forums, Reporting and Marketing, and Research Support. These committees will not only include established scientists, but also young researchers. If you would like to serve on any of these committees, or would like to understand the functioning of the new research structure better, please contact: Prof Tiaan de Jager (tiaan.dejager@up.ac.za ; Tel: 012 354 2226).



External Funders:
Liaison with external funders and assist with evaluation of applications. Responsibilities will include Cansa; MRC; Polio, WRC, etc.

Research Forum:
Designing, planning and organising research meetings. Responsibilities will include Faculty Research Day; the PhD Students Forum and the Research Information Forum.

Research Development:
Represent the Faculty at meetings, evaluate applications and present recommendations. Responsibilities will include the Senate Committee, Post-docs, Research Fellowships, NRF, RDP and Institutional and Faculty Research Themes.

Research Support:
Planning, negotiating and developing research support services for the Faculty of Health Sciences to help improve volume, collaboration, and successful applications for funding and output. Responsibilities of the Committee will include training, evaluation, support and relevant services for: Literature study; Data management; Scientific writing; Epidemiology and Bio-statistics; Language Editing; Grant and Research Report writing; Protocol development; and Research Ethics.

Reporting & Marketing:
relevant research news items and ensure adequate collection and marketing of output. Responsibilities will include the Faculty of Health Sciences Web; Faculty of Health Sciences Research Web, Department of Higher Education and Training (DoHET); Faculty prizes; and a Research Newsletter.

WORTHY OF ACCREDITATION

The RIS (Research Information System) snippets for this newsletter covers the topic of articles in DoHET (Department of Higher Education and Training) accredited journals for subsidy.

Articles are recorded in the RIS of the university and are used for statutory or institutional requirements, eg. the DoHET subsidy claim. Research articles are eligible for subsidy *only* if they appear in journals approved by the DoHET for this purpose.

Journals approved appear in:

1. These international indices

Thomson Reuters/ ISI Web of Science List: Science
Thomson Reuters/ ISI Web of Science List: Social Science
Thomson Reuters/ ISI Web of Science List: Arts & Humanities
ProQuest International Bibliography of Social Sciences (IBSS) List

2. An index of Approved South African Journals

(maintained by the DoHET and subject to an annual review)

Do you still have doubts as to the list of accredited journals as defined by the DoHET? Then consult the ASSAF (Academy of Science of South Africa) web site at: <http://www.assaf.org.za/department-of-higher-education-and-training-accredited-journals/> If the journal is not listed in these indices, the journal is **not** DoHET accredited!

RIS information has to be recorded in a detailed, prescribed format and according to strict criteria on the RIS database, as well as when submitting the hard copies of the articles to the Research Office. Hard-copies of every article submitted should show the following:

- Name of journal
- ISSN number
- Year of publication
- Volume, number, month
- Title of the article
- Page numbers of the article (first and last pages)
- Names of all authors with their affiliation(s)

Types of articles appearing in DoHET journals and not subsidised are:

- Correspondence to the editors
- Abstracts or extended abstracts
- Obituaries
- Book reviews
- News articles
- Advertorials
- Previously published works

Where to publish

Accredited journals are recognized research output which meet specified criteria and therefore qualify for subsidisation by the [Department of Higher Education and Training \(DHET\)](#).

To receive subsidy or recognition for an article you have written, you should select a journal from The Department of Higher Education and Training's List of Accredited Journals

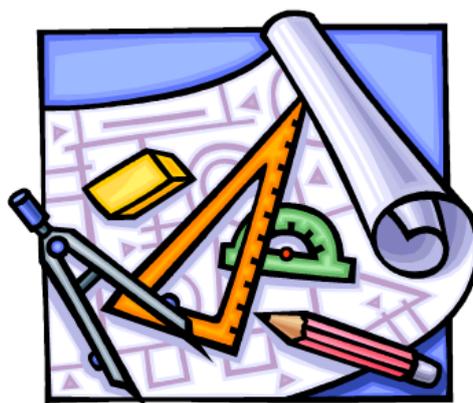
For more information and a list of Accredited journals go to: <http://www.library.up.ac.za/journals/journalsaccredited.htm>

Faculty Day

28-29 August 2012

The new Faculty Day website will be available from end April.

The deadline for abstracts is **11 June 2012**



Did you know that the Deputy Dean Research in the Faculty has a new office?

If you are the first person to e-mail the correct GPS co-ordinates to samantha.hodgson@up.ac.za you win the prize

Department of Orthopaedic on the rise!!

Orthopaedic surgery or **orthopaedics** is the branch of surgery concerned with conditions involving the musculo-skeletal system. Orthopaedic surgeons use both surgical and nonsurgical means to treat musculoskeletal trauma, sports injuries, degenerative diseases, infections, tumors, and congenital disorders.

The year 2011 has been a good year for the Department of Orthopaedics. At the SA Orthopaedic Association Congress, 11 papers were presented by the department. At this congress the department won the G.T. Du Toit registrar prize. This is a prize awarded for the best registrar paper was presented by Dr. Francois Sprong on an alternative method of harvesting bone grafts.

Traditionally bone is harvested from the iliac crest, with all its complications. Dr. Sprong's paper, entitled "Autologous intramedullary bone graft harvesting as an alternative to conventional harvesting method" describes a method of harvesting bone from the medullary canal of long bones.

The ABC travelling fellowship is the most prestigious award that can be awarded to any young orthopaedic surgeon. It is awarded to young surgeons (<45 years of age) from all over the world and they have an opportunity to tour USA + Canada in one year, and Britain, SA, New Zealand + Australia the following year. They visit centres of academic excellence, where they also show the work they do in their departments.

The recipients of this award are young surgeons, who have shown potential for leadership or research excellence. Previous recipients of the award have gone on to become world leaders in their chosen field of orthopaedics, or heads of academic departments. The department has been privileged in that one of its consultants, Dr Chris Snyckers was awarded the ABC fellowship. He will be visiting USA and Canada in June for 6 weeks. His field of interest is limb reconstructive surgery for trauma, pelvic trauma & arthroplasty. The department is very proud of this achievement and wish Dr. Snyckers well in his travels.



Left: Dr. Francois Sprong receiving the prize from the President of the SA Orthopaedic Association, Prof. Ngcelwane, who is also Head of Department of Orthopaedics



Right: Dr Chris Snyckers receiving the award from the President on the SAOA, Prof. Ngcelwane

IMPORTANT DATES TO NOTE

- **25 June 2012:** Junior Tukkies visit to the Faculty
- **17 August 2012:** HOD Meeting
- **28 August 2012:** Launch of Postgraduate Forum
- **28 - 29 August 2012:** Faculty Day

Staff Achievements & Highlights



Dr Ahmed Adam, Registrar from the Department of Urology, was awarded the South African Registrar Association (SARA) 2012 National Award for Academic Excellence. This was in recognition for outstanding academic contribution, authorship, presentations and publications, in the national category of registrars. Received at the SARA Annual AGM Gala evening at the, Kivietz Kroon Country Estate in Kameeldrift, Pretoria, on the 16th February 2012



Dr Ryan Blumenthal, a Senior Specialist from the Department of Forensic Medicine, helped co-write Chapter 3 of the sixth edition of Paul S Auerbach's Wilderness Medicine textbook. This classic textbook was published earlier this year. Dr Blumenthal was the only South African co-author to have been invited to take part in this privilege. He described it as an honor to have been involved in this project .

Spotlight on Prof Izelle Smuts

Prof Izelle Smuts is an Adjunct Professor in the Department of Paediatrics and Child Health. She has recently been awarded her PhD in the field of Biochemistry of Mitochondrial Disease in Children. Izelle has been active in research in this area of medicine for many years.

Primary mitochondrial disorders (MDs) are a heterogeneous group of genetically inherited conditions resulting in impaired oxidative phosphorylation (OXPHOS) affecting energy metabolism. Patients suffering from these disorders are usually suspected clinically and confirmed with biochemical analyses and/or molecular evaluations. There are also numerous conditions, referred to as secondary MDs, in which mitochondrial dysfunction as a secondary phenomenon is implicated e.g. diabetes, bipolar disease, schizophrenia, transient ischaemic attacks, stroke, epilepsy, fibromyalgia

and neuropathic pain. Different classes of medications e.g. anticonvulsants, analgesics, anti-depressants, antipsychotic, cholesterol medication, diabetic medication and anti-retroviral drugs, emerge as significant causes of mitochondrial damage, which may explain the adverse effects of the specific drug.

Mitochondrial disorders were always regarded to be very rare, but it has become clear that they are much more common than originally estimated. Izelle has been able to document that the genetic origin of MD's in South Africa appears to be unique. Therefore findings from elsewhere can also not be applied directly due to the ethnic diversity of our unique patient population.

There is currently no routine facility available in South Africa to assist in the biochemical and genetic diagnosis of these disorders and the diagnostic facili-



Prof Izelle Smuts

ty developed by Prof Smuts, through the research performed in a collaborative project between the University of Pretoria and North-West University, is the only facility able to conduct diagnostic testing. Prof Smuts is thus at the forefront of developments in unravelling the clinical features and presentation of a group of disorders that may be more common than we think. Her research is set to reshape the future of metabolic diseases in South Africans.

Staff Achievements & Highlights

PhD Graduates:

The following members of staff and students received their PhD degrees in the last two graduation ceremonies held on 9 September 2011 and 13 April 2012. Prof Eric Buch, Dean of the Faculty of Health Sciences, would like to congratulate each and everyone of you for your hard work, the time and effort you have put into your studies has certainly paid off.



Sonja Catharina Boy



Guinevere Marianne Gordon
(Anatomy)



Vaneesha Thaver
(Medical Immunology)



Jacob John van Tonder
(Pharmacology)



Catharina Cornelia Grant
(Physiology)



Manivasan Moodley
(Obstetrics & Gynaecology)



Yunus Amade Assane
(Neurology)



Heronyma Nelisiwe Gumede-Moeletsi
(Medical Virology)



Pieter Willem Meyer
(Medical Immunology)



Greta Dreyer
(Obstetrics & Gynaecology)



Daniel Gerhardus van Zyl
(Internal Medicine)



Cornelia Magdalena Lodder
(Medical Immunology)



Marianne de Beer
(Occupational Therapy)

Certificate in Bioentrepreneurship

22 - 26 August 2011 (Pretoria) and 19 - 23 September 2011 (Cape Town)



1

Certificate in Bioentrepreneurship

22 - 26 August 2011 (Pretoria)
19 - 23 September 2011 (Cape Town)

Focus on biotechnology and the application of business principles thereto.

(Presented by University of Pretoria)

2

Advanced Certificate in Bioentrepreneurship

2 day course in December 2011
(Cape Town)

Open to all prospective bioentrepreneurs who have successfully completed a course in Bioentrepreneurship

(Presented by University of Basel)

3

Bioentrepreneurship Summer School

5 days course in Mid-2012

Summer school and business development programme to be held in Switzerland – applicants are selected on the basis of merit



CONTINUING EDUCATION
UNIVERSITY OF PRETORIA

www.ceatup.com

Certificate in Bioentrepreneurship

22 - 26 August 2011 (Pretoria) and 19 - 23 September 2011 (Cape Town)

BRIEF DESCRIPTION OF CERTIFICATE COURSE

This course is aimed at entrepreneurs in the biotech sector and at anyone who may have an interest in any aspects related to entrepreneurship in biotechnology. This includes post-graduate students, would-be entrepreneurs, people who have already started their own companies and those that may have been in business for some time but who might wish to look at entrepreneurship from a biotech perspective. This course will be presented by leaders in the field of biotechnology and related areas from across the country.

COURSE CONTENT

- ▶ Introduction to the bioeconomy
- ▶ Health biotech
- ▶ Industrial biotech
- ▶ Biotech business management
- ▶ Open innovation
- ▶ Leadership
- ▶ Tech transfer in the higher education sector
- ▶ Idea-to-product
- ▶ What does it take to be a successful bioentrepreneur
- ▶ Agri-biotech
- ▶ The biotech funding environment
- ▶ IP management
- ▶ An overview of the South African STI landscape
- ▶ Marketing
- ▶ Biotech from a DST perspective

WHO SHOULD ENROL?

Current and would-be entrepreneurs and those with an entrepreneurial spirit who wish to gain insight into the nature of biotech and the application of business principles thereto. This course is particularly aimed at those who are involved in a biotech or biotech-related business or who wish to start a new business in biotech.

ADMISSION REQUIREMENTS

Candidates must have completed an undergraduate degree in science, medicine, business or law.

COURSE STRUCTURE AND VENUE

This is a five day course that will be presented at:
- The University of Pretoria from 22 - 26 August 2011
- Cape Town from 19- 23 September 2011

ASSESSMENT AND ACCREDITATION

Delegates who successfully complete the course will receive a certificate. The University of Pretoria is accredited by the Council on Higher Education (CHE). The recommended NQF level is 7.

COURSE FEE (CE at UP IS EXEMPT FROM VAT)

The programme has been subsidised by TIA resulting in a low course fee:
R 1 500.00 per delegate
R 750.00 for students (proof of registration required)

REGISTRATION AND ENQUIRIES

Client Services Centre, Continuing Education at University of Pretoria
Tel: +27 (0)12 420 5015
Fax: +27 (0)12 420 5465
E-mail: info.ce@up.ac.za

ENQUIRIES REGARDING COURSE CONTENT

Michael Pepper
Professor, Unit for Advanced Studies
Tel: 012 420 5317
Fax: 012 420 3953
E-mail: michael.pepper@up.ac.za

SSAJRP  
SWISS SOUTH AFRICAN JOINT RESEARCH PROGRAMME


technology innovation
A G E N C Y



CONTINUING EDUCATION
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