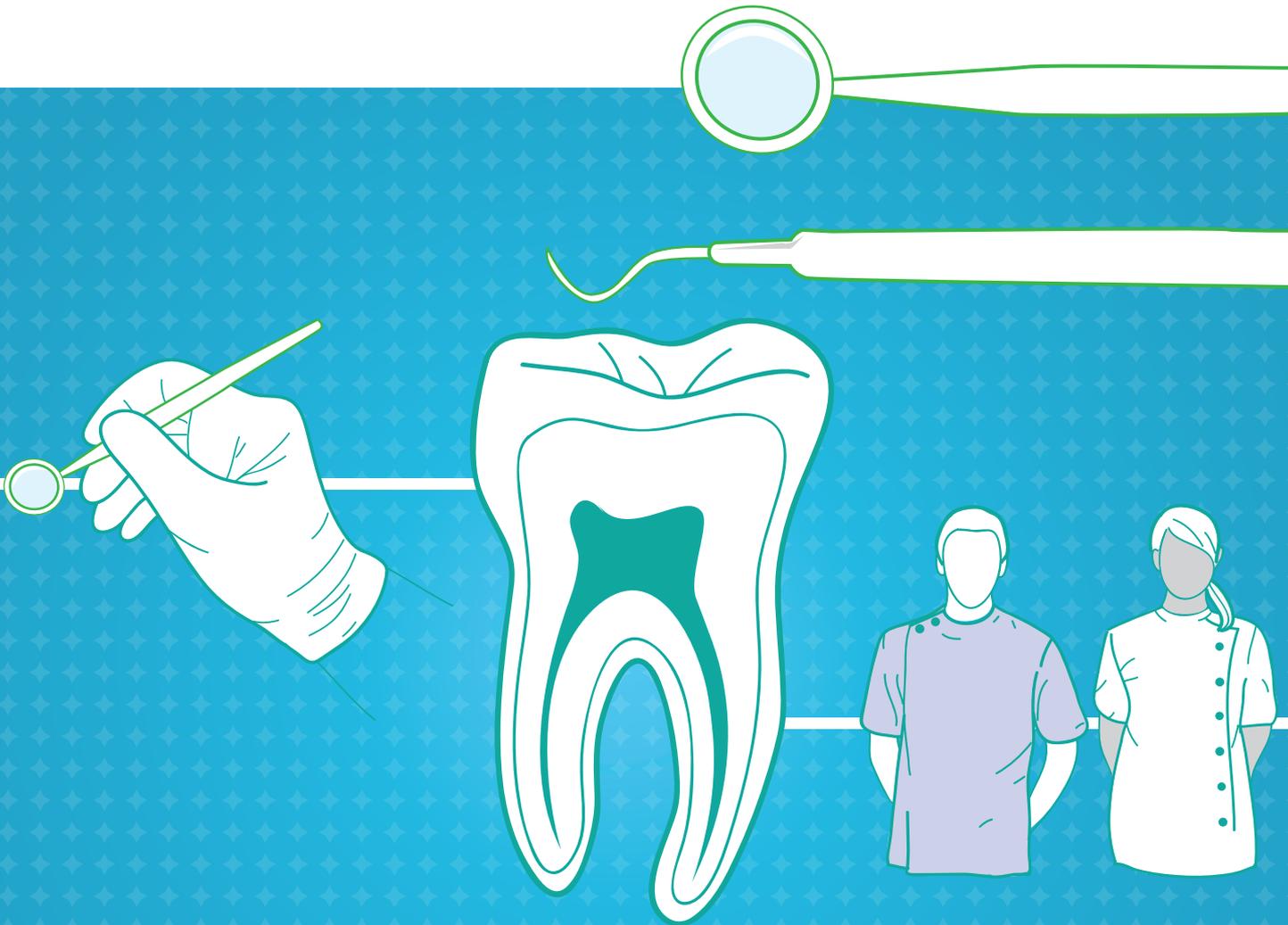


no.3 autumn 2011

# wisdom

CARDIFF SCHOOL OF DENTISTRY  
[WWW.CARDIFF.AC.UK/DENTL](http://WWW.CARDIFF.AC.UK/DENTL)



## Reaching Further

New primary dental care unit launched in South Wales

**Cardiff researcher wins  
international award**

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Editor Martin Haynes

Assistant Editor Catherine Roberts

Find out more about the School at:

[www.cardiff.ac.uk/dentl](http://www.cardiff.ac.uk/dentl)

or email : [wisdom@cardiff.ac.uk](mailto:wisdom@cardiff.ac.uk)



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wisdom is designed by Christie Lennox and the Dental Illustration Unit at Cardiff University

# Welcome



It is my pleasure to welcome you to the third issue of *wisdom*, the annual publication that provides an overview of the activities and achievements of the School of Dentistry at Cardiff University.

In August 2010, it was my honour to succeed Professor Elizabeth Treasure to become the seventh Dean of the School, and it is my intention to work to maintain the extraordinary record of success that the School has enjoyed in recent years.

Within these pages you will read about the wide range of activities that have involved the School during the past year and how the high quality of achievements has been recognised. You will also read about the continuation of significant investment in our clinical, educational and research facilities which are truly now amongst the best in Europe.

There have been a number of highlights involving improvements that the School has made to its infrastructure in the past twelve months alone. At the beginning of the last academic year the Oral Health

Clinic, which comprises 34 dental chairs, underwent a complete refurbishment, and now offers a modern, state-of-the-art clinical and learning environment. In addition, 2010 saw the School complete the refurbishment of its research laboratories, which will help support the School's exciting and world-leading research programmes. Furthermore, November 2011 will see the School open its second primary care dental unit in the Cynon Taf Valley, offering access by appointment to daytime dental care for an estimated 10,000 people. These multi-million pound improvements to our infrastructure illustrate the School's ongoing commitment to providing the best educational, clinical and research environments. You can read about all of these developments in this issue.

Of course, facilities alone are not enough, and the School is truly fortunate to have an outstanding faculty of clinicians, educationalists and researchers. The quality of our staff is frequently recognised by external bodies, and we report in these pages on a prestigious global research award that has been made to Dr Alastair Sloan, of which we are all immensely proud. The excellence of our teaching staff was also recognised in 2010 by the School being ranked first among all UK dental schools in the National Student Survey for overall satisfaction with the educational experience offered in Cardiff. Such success can only be achieved as a



The School's recently refurbished Oral Health Clinic

## “The School is truly fortunate to have an outstanding faculty of clinicians, educationalists and researchers”

result of the diligent efforts of the School's staff, of which I am extremely grateful.

Clearly the current economic situation will provide significant challenges to higher education and to healthcare provision, but we should also view these times as an opportunity to review and improve what we offer and how we offer it. The School has been doing this, spending the last two years undertaking a major review of its educational provision and resource utilisation, and the fruits of this labour can also be read about in these pages.

The School's activities and achievements are too numerous to mention in one issue of *wisdom*, but I hope that we are able to provide you with a glimpse of our work. If you would like to learn more about anything you read in these pages, or would like to contribute to future issues of *wisdom*, please do not hesitate to contact us at [wisdom@cardiff.ac.uk](mailto:wisdom@cardiff.ac.uk).

I hope you enjoy *wisdom*.

Professor MAO Lewis  
Dean

*Michael A.O. Lewis*



Professor Lewis, Dean of the School

## Croeso



**Mae'n bleser gennyf eich croesawu i'r trydydd rhifyn o *wisdom*, y cyhoeddiad blynyddol sy'n rhoi trosolwg o weithgareddau a chyflawniadau'r Ysgol Ddeintyddiaeth ym Mhrifysgol Caerdydd.**

Ym mis Awst 2010, cefais yr anrhydedd o olynu'r Athro Elizabeth Treasure i fod y seithfed Deon yr Ysgol, a'm bwriad yw gweithio i gynnal y record eithriadol o lwyddiant y mae'r Ysgol wedi'i fwynhau dros y blynyddoedd diwethaf.

O fewn y tudalennau hyn gallwch ddarllen am yr amrywiaeth eang o weithgareddau y mae'r Ysgol wedi ymwneud â hwy yn ystod y flwyddyn ddiwethaf a sut y cafodd ansawdd uchel y cyflawniadau ei gydnabod. Gallwch ddarllen am barhad y buddsoddiad sylweddol yn ein cyfleusterau clinigol, addysgol ac ymchwil sydd bellach ymhlith y gorau yn Ewrop.

Cafwyd nifer o uchafbwyntiau yn cynnwys gwelliannau y mae'r Ysgol wedi'u gwneud i'w hisadeiledd yn ystod y deuddeg mis diwethaf. Ar ddechrau'r flwyddyn

academaidd ddiwethaf, cafodd Clinig Iechyd y Geg, sy'n cynnwys 34 o gadeiriau deintyddol, ei ailwampio yn gyfan gwbl, ac mae bellach yn cynnig amgylchedd clinigol a dysgu modern o'r radd flaenaf. Hefyd, yn 2010 cwblhaodd yr Ysgol y gwaith o ailwampio ei labordai ymchwil, a fydd yn helpu i gefnogi rhaglenni ymchwil cyffrous a blaenllaw yr Ysgol. At hynny, ym mis Tachwedd 2011, bydd yr Ysgol yn agor ei hail uned ddeintyddol gofal cynradd yn Nyffryn Cynon Taf, gan gynnig mynediad i apwyntiadau gofal deintyddol yn ystod y dydd i tua 10,000 o bobl. Mae'r gwelliannau hyn i'n hisadeiledd, sydd werth miliynau, yn dangos ymrwymiad parhaus yr Ysgol i ddarparu'r amgylcheddau addysgol, clinigol ac ymchwil gorau. Gallwch ddarllen am y datblygiadau hyn i gyd yn y rhifyn hwn.

Wrth gwrs, nid yw cyfleusterau yn ddigon ar eu pen eu hunain, ac mae'r Ysgol yn ffodus iawn o gael cyfadrannau wych o glinigwyr, addysgwyr ac ymchwilwyr. Caiff ansawdd ein staff ei gydnabod yn rheolaidd gan gyrff allanol ac, yn y rhifyn hwn, ceir adroddiad ar wob'r ymchwil byd-eang fawreddog sydd wedi'i rhoi i Dr Alastair Sloan. Rydym i gyd yn arbennig o falch ohono. Cafodd rhagoriaeth ein staff addysgu ei chydabod hefyd yn 2010, gyda'r Ysgol yn cael ei rhestru fel

yr orau o blith pob ysgol ddeintyddol yn y DU yn yr Arolwg Myfyrwyr Cenedlaethol am foddhad cyffredinol o ran y profiad addysgol a gynigir yng Nghaerdydd. Dim ond o ganlyniad i ymdrechion dyfal staff yr Ysgol y gellir cyflawni llwyddiant o'r fath ac rwy'n ddiolchgar iawn i bawb.

Yn amlwg, bydd y sefyllfa economaidd bresennol yn golygu heriau sylweddol i addysg uwch ac i'r ddarpariaeth gofal iechyd, ond dylem hefyd ystyried y cyfnod hwn fel cyfle i adolygu a gwella'r hyn a gynigir gennym a sut rydym yn ei gynnig. Mae'r Ysgol wedi bod yn gwneud hyn, gan dreulio'r ddwy flynedd ddiwethaf yn cynnal adolygiad pwysig o'i ddarpariaeth addysgol a'i defnyddo o adnoddau, a gellir darllen am ffrwyth ein llafur ar y tudalennau hyn.

Mae gan yr Ysgol ormod o weithgareddau a chyflawniadau i'w crybwyll mewn un rhifyn o *wisdom*, ond gobeithiaf y gallwn roi cipolwg i chi o'n gwaith. Os hoffech ddyysgu mwy am unrhyw beth y byddwch yn ei ddarllen ar y tudalennau hyn, neu os hoffech gyfrannu at rifynnau o *wisdom* yn y dyfodol, mae croeso i chi gysylltu â ni ar [wisdom@cardiff.ac.uk](mailto:wisdom@cardiff.ac.uk).

Gobeithio y byddwch yn mwynhau *wisdom*.  
Yr Athro MAO Lewis  
Deon

## Cardiff researcher's international award for bone and tooth repair

Breakthroughs in the regeneration of bone and dental tissue have won a Cardiff University researcher a leading award for young dental scientists.

Dr Alastair Sloan's research career has focussed on the therapeutic use of bio-active molecules in the repair of the body's mineralised tissues – bones and dentine in the teeth. He has built up an understanding of how the body's own stem cells repair damaged tissues naturally – and identified new materials which can do the same.

Now Dr Sloan's work has won him one of the world's leading awards for oral and dental scientists under the age of 40. The International Association for Dental Research's Young Investigator Award is presented annually for a researcher's achievements to date, and the promise that they hold for the future.

Dr Sloan's work offers new approaches both to filling damaged teeth and healing broken bones. He explained: "The survival rate for tooth repair work has improved in recent years, but there is still only less than 50 per cent chance of a filling or other work lasting five years. Our



Dr Sloan (centre) flanked by Professor Lewis (Dean) and Dr David Grant (Vice-Chancellor of Cardiff University)



Dr Sloan with his award

team wants to drive that figure up whilst creating dental restorations that promote tissue repair and survival of the tooth. We have recently made significant advances in this area so that we know which molecules offer the best chance of survival, thanks to a project funded by the Welsh Government's Welsh Office for Research and Development. We are now working on a major MRC-funded project to identify the best ways of delivering them."

Dr Sloan's research group is also working on a similar approach to broken bones, imitating natural healing processes but improving on effectiveness and speed. His team also studies how inflammation impacts on dental disease and has come up with new models of inflammatory bone damage. This work has been funded by the National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs).

Dr Sloan, Head of Tissue Engineering and Reporative Dentistry at the School of Dentistry leads the Mineralised Tissue Research Group and received his award at

the International Association for Dental Research's annual general session in San Diego, USA. He received a plaque and US\$3,500.

Dr Sloan said:

**"I am both honoured and delighted to have won this prestigious award. It recognises the significant internationally competitive work the Mineralised Tissue Group at the School of Dentistry is engaged with and this award is also for my fantastic team here in Cardiff. It shows not just the strength of our group but also the quality of research in the School of Dentistry in general."**

Professor Mike Lewis, Dean of the School of Dentistry, said

"This is a fantastic award which rightfully acknowledges Dr Sloan's cutting edge and world leading research. As described at the presentation of the award, Dr Sloan represents the future of dentistry and I am obviously absolutely delighted that his research team is based here in Cardiff."

## School of Dentistry Research Day 2011

This year's School Research Day will be held on Wednesday 12th October in the School. Building on the success of our inaugural event last year this will be an opportunity for internal and external colleagues to experience the breadth and depth of research on-going within the School and throughout our numerous cross-disciplinary external collaborations. The day will involve presentations from

our early career researchers, updates on some of the large cross-School research grants that are currently running and will finish with an update from Professor Paul Speight (University of Sheffield) on the approaching Research Excellence Framework assessment. The day will conclude with a chance for refreshments and networking and the announcement of the winner of the final year PhD prize.

*Please mark this date in your diary and contact Prof Phil Stephens (StephensP@cf.ac.uk) for any further information.*

## Hospital records of violence fall further

The number of people treated in hospital after violent injury fell in England and Wales in 2010, an annual and authoritative study by the School's Violence & Society Research Group has revealed.

Doctors dealt with an estimated 313,000 violent incidents, down 11% in a year. But for the second year running, the figures saw an unexplained rise in the small number of young children who went to hospital after a violent injury. The study says the overall trend in violence has now fallen for a decade.

The annual research by the Group tries to capture an accurate picture of violence by counting incidents recorded at 59 emergency departments or minor injury units in England and Wales. The researchers use these figures - more than

56,000 people in 2010 - to come up with an estimate for the total number of incidents dealt with by the NHS.

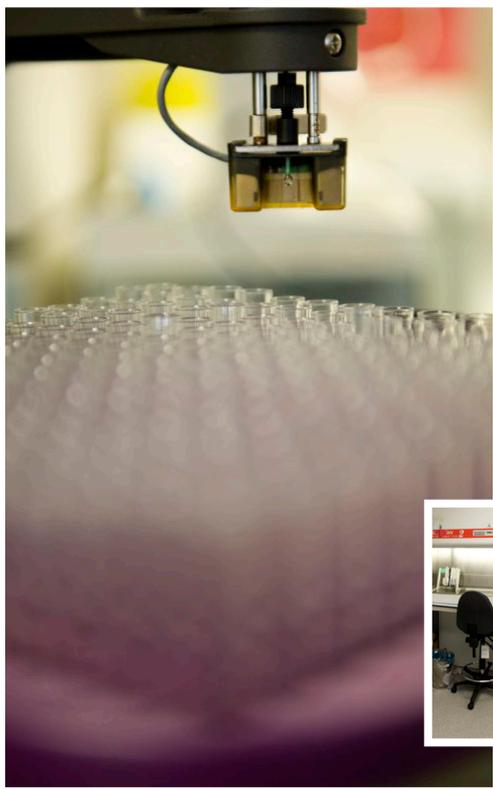
The 10-year-old study was launched partly because of contradictory official figures on violent crime. The latest survey found that almost six out of every 1,000 people went to hospital with an injury caused by violence during 2010.

Serious violence affecting young people aged 11 to 17 fell by 16.5% over the year, with 7,738 treated at the 59 units. The most likely victims remained young men aged between 18 and 30. Doctors treated almost 28,000 in this age group over the year - although this was an 11% drop in the number of victims. The figures indicate that most violence happens at weekends. Overall, the Group estimated that violence had declined by almost a quarter over the 10 years of the study, with 101,000 fewer people treated in hospitals in 2010 than in 2001. The survey also found that the number of children up to the age of 10 who needed hospital treatment rose by a fifth in 2010. It said that although the number of children treated in the 59 units was only

615, or 1% of all those treated, the second annual rise indicated that there was a "real upward trend" of injuries to children. The figures came as a Professor Eileen Munro, a child protection expert, finalised her review of how social services could become better at identifying children at risk of harm.

Professor Jonathan Shepherd, Director of the Violence & Society Research Group, said:

**"The figures for the last two years show a disturbing upward trend in violence against children. The reasons are unclear, but the figures highlight the need for child safeguarding to remain a national priority. It is vital that the Munro Review results in further action to improve the quality of our child protection services."**



## School invests in new research facilities for the future

As part of an on-going drive to increase the research capacity within the School, significant investment has been made to refurbish existing, and create new, laboratory facilities in the building.



Funded by a grant from the Welsh Government, space has been converted into state of the art tissue culture rooms (eight class II cabinets and 16 cell culture incubators), microscope rooms (including a time lapse confocal laser scanning microscope) and a large general purpose laboratory with bays to accommodate up to 16 researchers.

The pathology/tissue processing laboratories have also undergone extensive refurbishment and re-equipment as have the microbiology facilities which have increased their footprint by 50% (including the construction of a walk-in warm room) to accommodate the significant increase in research in this area. This expansion in research space has been matched by an expansion of research staff/students due to a significant rise in external research grant income (RCUK, European Union, charities and industry).

Staff and students working within the new facilities



## Cross-discipline EPSRC-funded research grant coordinated by School



The Engineering and Physical Sciences Research Council has jointly awarded Cardiff University and Swansea University £1.5M as part of their recent Novel Technologies for Stem Cell Science call. A multi-disciplinary project led by Professor Phil Stephens, it also involves colleagues from the Cardiff Schools of Biosciences, Chemistry, Medicine, Physics, the ESRC Centre for the Economic and Social Aspects of Genomics, the Cardiff Institute for Tissue Engineering and Repair and from the School of Engineering at Swansea University.

This grant will enable researchers to develop new ways of non-destructively labelling stem cells by manipulating molecules within them so we can follow both their position and their eventual fate (i.e. what do these stem cells turn into?). Technologies will be utilised to eventually enable the imaging of these cells deep within patient tissues.

Professor Stephens said: “Being able to follow these stem cells will allow us to examine the mechanical influence of their surrounding tissue environments, and to manipulate these environments to direct stem cells into our tissue of choice in order to deliver custom designed tissues on demand. Overall, the ultimate aim is to develop new tools to allow us to investigate and control stem cell biology in order to realise the true clinical potential of these cells.”



## £1m study aims to identify best way of preventing child tooth decay



**A £1m health study to prevent child tooth decay will focus on some of South Wales’ most deprived communities.**

Statistics show a three-fold rise in tooth decay in children living in areas of deprivation compared with more affluent communities. As such, dental health workers will deliver a primary school-based dental prevention programme via mobile dental clinics. The three-year study will treat 2,800 primary school pupils from within Communities First areas in South Wales.

Experts from Cardiff and Swansea universities and Cardiff and Vale University Health Board’s Community Dental Service have been awarded the money by the National Institute for Health Research. The children will

**“We are delighted to have the opportunity to carry out this study, the results of which will be of relevance to improving oral health, not just locally, but nationally and internationally.”**

be followed up for three years to investigate the effectiveness of two forms of treatments used to prevent tooth decay.

Professor Ivor Chestnutt, Consultant in Dental Public Health from Cardiff University’s School of Dentistry is leading the study. Professor Chestnutt explained the two common forms of treatment were using plastic sealants on the biting surface, or painting of fluoride varnish onto the tooth surface.

“Both of these treatments have been around for many years and have been shown to work.

“To know which works best and is most acceptable from the perspective of the children, their parents, the dental staff carrying out the treatments, and the schools in which the treatment will be delivered will be of tremendous value to the National Health Service.

## New Oral Health Clinic

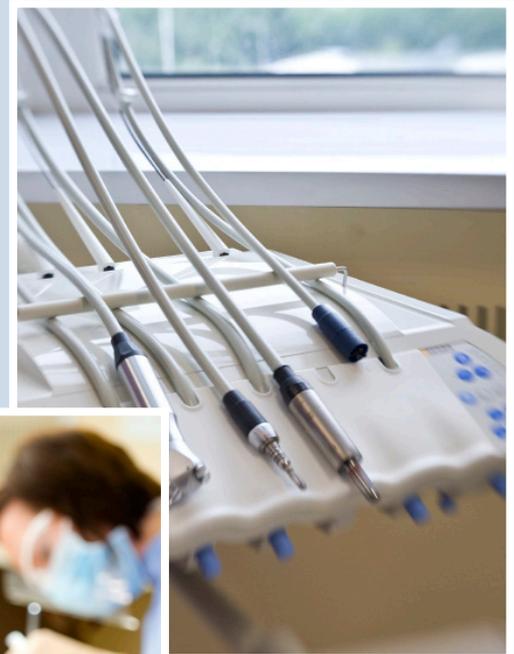


The School's new Oral Health Clinic - a state of the art facility

**In Summer 2010 the 34-Chair Oral Health Clinic was completely refurbished, as part of the University Dental Hospital's rolling refurbishment programme.**

The work, which cost £1.5 million and was funded by the Cardiff & Vale University Health Board, has completely modernised the clinic. A suite of ambidextrous units have been installed, as well as two radiography units for ease of access and enhanced decontamination facilities.

Karen Elcock, Divisional Manager of the Dental Division of the Cardiff & Vale University Health Board, and Project Manager for the redevelopment, said, "This refurbishment is part of the Division and School's ongoing commitment to providing modern, high quality facilities for student education and patient care. A multi-disciplinary team was assembled to manage the project including all key stakeholders, which proved to be a very successful approach. A complex project was delivered on time and within budget".



## School Alumnus is New Chief Dental Officer for Wales

**One of the School's alumnus has recently been appointed as the new Chief Dental Officer (CDO) for Wales.**

Mr David Thomas graduated from the School in 1976, and has already worked as the deputy CDO to the Welsh Government and as acting CDO following the retirement of the previous incumbent, Dr Paul Langmaid.

The Chief Dental Officer is responsible for providing high quality and professional advice to Welsh Government ministers in relation to dental policy, practice and the promotion of good oral health.



Mr Thomas said:

**“I am delighted to have been appointed to the role of Chief Dental Officer and look forward to working with ministers on the many aspects of dental policy and practice, including promoting and improving the dental health of the people of Wales.”**

Wales' chief medical officer Dr Tony Jewell said: 'David brings to the role a background in community dentistry, dental public health as well as a record in academia, in both a management and research role.

'He has published widely in academic dental journals and has been involved in the management of dental postgraduate education.

'I would like to thank David for his work as acting Chief Dental Officer since the retirement of Paul Langmaid, and look forward to working with him in his new role.'

Professor Mike Lewis, Dean of the School of Dentistry, said: "We take great pleasure in the achievements of our graduates, so we would like to congratulate David Thomas on his new appointment. As Wales' only dental school, we also look forward to working with David on developing the profession in Wales and meeting the dental healthcare needs of the population."

## Modernising Dental Education



**A series of recommendations emanating from the School's Modernising Dental Education (MDE) programme of projects are being implemented this year within the Bachelor of Dental Surgery (BDS) programme.**

The MDE programme is a joint School of Dentistry and Cardiff & Vale University Health Board initiative to review the educational provision and resource utilisation within the University Dental Hospital, community-based clinics and primary dental care education units.

The past two years have seen a considerable amount of work take place reviewing the way in which the BDS course in particular is delivered and supported, including obtaining feedback from staff, students and other stakeholders. This work has been undertaken within the context of needing to accommodate increasing undergraduate and postgraduate student numbers, in a time of increasing financial pressures on higher education and healthcare funding.

The first wave of recommendations from the review are currently being put in place. These include:

- The introduction of new timetables to enable the BDS course to introduce earlier clinical contact into the programme and increased clinical contact in the final year
- A reorganisation of activity and resources to accommodate increasing student numbers
- Introduction of case-based learning within the curriculum
- Introduction of an electronic dental records system throughout the teaching clinics in the University Dental Hospital
- A reorganisation of the BDS management structure

Considerable work has also been undertaken in areas such as assessment and feedback, e-learning, workload modelling and improving integration between dental, hygiene and therapy students. However, much work has still to be done, for example, one of the key recommendations from MDE is the introduction of a modular structure for the BDS course, and planning for this will be focused upon in the coming year.

To support the implementation of these recommendations, considerable investment in facilities has been undertaken. In Summer 2010, the 34-chair Oral Health Clinic in the University Dental Hospital was completely refurbished, and in Autumn 2011 a new Primary Care Dental Unit will open in the Cynon Valley (more information on both of these developments can be found elsewhere in this issue).

Professor Paul Dummer, Vice-Dean for Learning, Teaching & Assessment, said, "I am very grateful for the amount of hard work colleagues have dedicated in recent months to enable the School to make these changes. Delivering recommendations on this scale is not simple, but our ongoing efforts will produce a better learning experience for our students and ensure we continue to produce high quality graduates, whilst better using the resources at our disposal".



## Increase in undergraduate numbers



**2010/11 saw the first intake onto the BDS course of the School's additional 12 undergraduate student numbers, funded by the Welsh Government.**

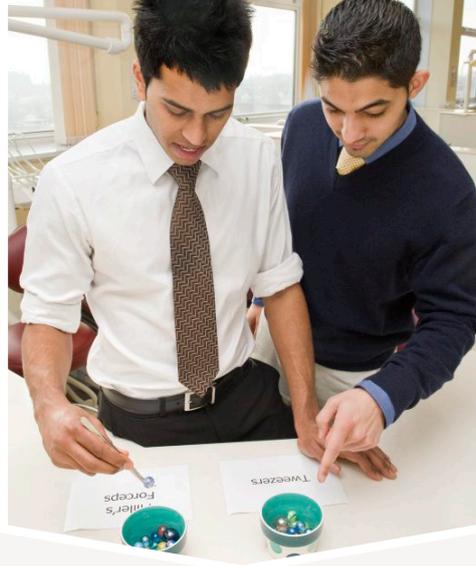
The numbers of students recruited onto the degree has increased from 68 to 80, and this investment by the Welsh Government is in recognition of the need to provide a dental workforce capable of meeting demand.

Considerable investment has been made in educational and clinical facilities in the School to accommodate these numbers, details of which are included elsewhere in this issue of *wisdom*.

A student in the Brian Cooke Dental Library



Prospective students  
being assessed as part of  
the new process



## Multi-mini interviews introduced in undergraduate selection process



**This year saw a significant change in the undergraduate dentistry admissions process within the School, with Dr Robert McAndrew (Clinical Senior Lecturer in Restorative Dentistry and Admissions Tutor) and the School Academic Office introducing an entirely new interview experience.**

Traditionally undergraduate entry at Cardiff, as elsewhere, has centred on an assessment of an applicant's academic ability, dental-related work experience and so on. The School along with many other academic institutions has recognised for some years that it has been increasingly difficult to separate and quantify the many excellent applications that have been received.

Whilst the School believes that their tried and tested methods were a very good source of choosing suitable undergraduate dental students it was always felt that the process should evolve as new tools for selection became available; hence the introduction this year of Multi-mini interviews (MMIs).

To the uninitiated, the MMI process is a series of short structured interview and participation stations that cover a number of areas and runs like a series of Objective Structured Clinical Exercises (OSCEs). MMIs have been increasingly used throughout the world since being introduced at McMaster University in Canada in 1994, and research has shown them to be an excellent means of selecting students for health care related professions.

Cardiff is believed to have been the first dental school to use the MMI as a selection tool for dental students and until recently was the only school in the UK using MMIs. This year 189 potential dental students participated in the MMI process for the 80 places on offer for 2011/12 entry. The applicants undertook a series of 10 MMIs which covered areas such as; dentistry as a career, logic, reasoning, ethics and plagiarism, manual dexterity, breaking bad news, research and data interpretation. The process was run over one whole academic week and involved undergraduate dental students, dental nurses, receptionists, school support staff, research staff, general dental practitioners, and clinical academic staff ranging from Senior House level to the Dean of the School.

Dr McAndrew said "The interviews went very well and the feedback from both participating staff and candidates was extremely complimentary. The enthusiasm shown by all involved facilitated the effective running of the whole admissions process and we are all looking forward to repeating the admissions event next year."

### Feedback on the new process from staff and students



"I feel that I performed better today than at normal interviews as I felt a lot more relaxed and I could be myself. Therefore as I was more relaxed I was able to think much more logically and I was able to communicate better with the interviewers."

"The stations were relevant and appropriate. I feel that applicants are given the opportunity to shine."

"Some of the stations were unexpected so really tested both my mental and physical skills (but in a good way)."

"It gives us the ability to get applicants away from reciting prepared monologues."

"I think it's a great system, it was easy to get relaxed after one station and I think it was great to have so many skills were tested."

"I thoroughly enjoyed it!"

"Setting was calm and put me at ease and was comfortable - reduced nerves."

"Definitely better than old style interviews."

"The School conducted the interviews very well and they were enjoyable. I felt my personality came out in the interviews, and that the MMIs are very effective in assessing students."

"Now that I have seen MMIs in action...it's the only way to go. I look forward to next year."

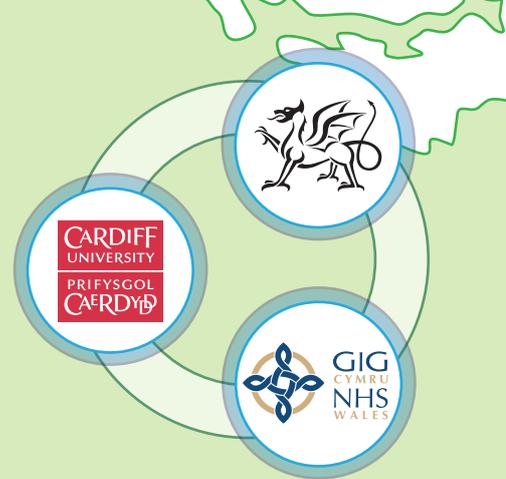
"I think MMI challenges you but allows you to shine as well."

"Brilliant... why haven't we done it before!"

# School Launches New 'Outreach' Facility

**PDQU**

Primary Dental Care Unit  
Cynon Valley Hospital



**Following on from the success of its first Community Based Clinical Teaching Unit at St. David's Hospital in Cardiff, the School of Dentistry is expanding its programme of outreach clinical experience for students by opening a second unit in the Cynon Valley.**

The new Unit at Mountain Ash, 17 miles north of the School, will provide 18 treatment units for student dentists, hygienists and therapists. The Unit will form part of the Cynon Valley Neighbourhood Hospital, funded by the Welsh Government and run in partnership between Cwm Taf Local Health Board, Cardiff and Vale University Health Board, and Cardiff University.

The Unit will provide a wide range of primary care clinical experience for the students with associated seminar activity, as well as providing a wide range of dental care for those in the local population without a dentist.

Professor Michael Lewis, Dean of the School commented: "The community clinic training we have developed

in Cardiff over the past decade has proved to be a major success. Not only do our students benefit from the experience, but we also help to provide vital community dental services in areas of long-term, high dental need. The Cynon Valley facility will help us continue this vital strand of our educational and service strategy, providing access by appointment to daytime dental care for an estimated 10,000 people who, unfortunately, have not previously had access to such healthcare resources."

Peter Ash, Director of the Primary Care Dental Units, said that the new facility would be an asset to the community. He explained, "The unit will provide care for those who currently have no access to dental care.

"There are many instances where dental practices are reluctant to take on some patients due to the large amount of work that they need to have done.

"The staff and students at the unit will assess those patients and develop a programme of work to address their

problems and hopefully then pass them onto a dental practice for regular treatment and care.

"As such, it will also be a vital asset in training the next generation of dental professionals. Since the opening of our first Unit at St David's in 2002, Cardiff has been at the fore of UK dental schools in this form of teaching, with many other schools opening Units based on our approach.

"Cardiff students will now have the benefit of two years outreach experience with year 4 dental students attending St David's and year 5 in the new Unit at Cynon Valley. Hygiene and therapy students will attend for years 2 and 3 of their course and will work alongside dental students on all clinics to build and emphasise a teamwork approach.

"This development will enhance our position as the lead school in this field and provide valuable educational and clinical experience for our students as they move through qualification and into Foundation Training".

The facility will open in late 2011 with the first students commencing patient care shortly afterwards.





The new Unit at Mountain Ash, will form part of the Cynon Valley Neighbourhood Hospital, funded by the Welsh Government and run in partnership between Cwm Taf Local Health Board, Cardiff and Vale University Health Board, and Cardiff University.



17 miles north

Mountain Ash: dental access for

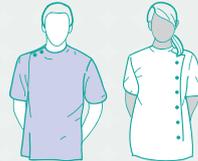
10,000 people

7%

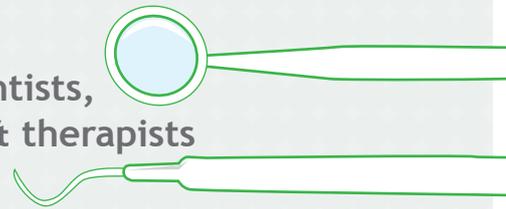
Increases NHS dental access in Rhondda Cynon Taf by 7%



18 treatment units FOR



student dentists, hygienists & therapists



2 years OUTREACH experience

Dentistry



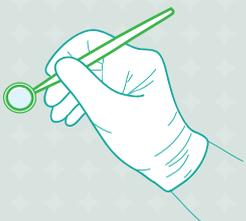
Hygiene & Therapy



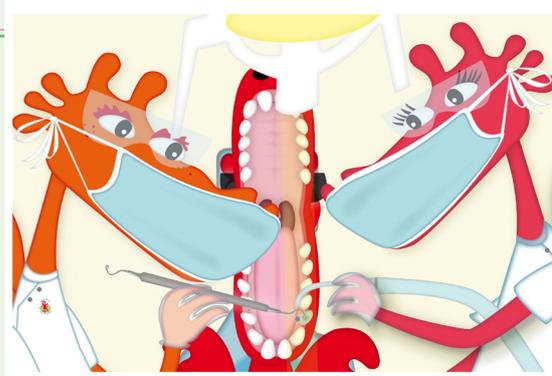
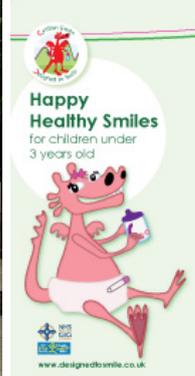
1. Assess

2. Treat

3. Refer to local dental practice



This development will enhance Cardiff University's position as the lead school in this field



## International design awards success

**The Designed to Smile campaign, graphically illustrated by the Dental Illustration Unit's Ruth Lewis-Bowen and Christie Lennox, has received a Gold Award in the 2011 Health and Science Communications Association's Media Festivals.**

The campaign, produced on behalf of the Welsh Government and the Chief Dental Officer for Wales, includes a whole range of highly illustrated, fun and educational resources to help improve dental hygiene in young

children in Wales. Co-authors are Menna Lloyd and Michele Seager who were the main contributors of the written content.

The Media Festivals receive over 130 entries from around the world, with Bronze, Silver and Gold awards being given by expert panels through a peer-review process. The Gold awards are then judged against each other, by past presidents of the Association, to receive the Elmer Friman Best in Show Award.

The awards were presented at the Association's annual meeting, Brilliance in Biocommunications in Phoenix in June, where Designed to Smile also beat stiff competition from

print and video entries from Australia and the USA to take the coveted Best in Show award.

The Designed to Smile entry included examples from the over 100 pieces of information for patients and healthcare workers produced to support the campaign. The campaign was fronted by Dewi the Dragon, a character also created by the team and designed to appeal to young children. The Dewi character was specifically created to compete with the likes of Tony the Tiger and Ronald McDonald, who very successfully carry their brand identity, and against whom this campaign is challenging with an alternative, good-health message.

## New Editor-in-Chief at the Journal of Dentistry

**Dr Chris Lynch, Senior Lecturer and Honorary Consultant in Restorative Dentistry at Cardiff University, has been appointed Editor-in-Chief of the Journal of Dentistry.**

Dr Lynch graduated from University College Cork, Ireland and was appointed to his current post at Cardiff University in 2006. Dr Lynch replaces Professor Damien Walmsley, University of Birmingham, who is stepping down from the Editor-in-Chief role following a successful nine year term.

The Journal of Dentistry is described as the leading international dental journal in Restorative Dentistry.

Commenting on his appointment, Dr Lynch said: "My ambition is that the Journal of Dentistry will continue to be a leading



*Dr Chris Lynch (right) and Professor Walmsley*

international dental publication, with an emphasis on publishing high-quality research that has the anticipated impact of influencing the practice of dentistry at clinician, researcher, industry and policy-maker levels on an international basis."

## Indicators of Success

The School's success in recent years has been recognised by notable rankings in several of the leading UK university league tables.

In 2010 the School was ranked first among all UK dental schools for overall student satisfaction in the National Student Survey (NSS). This was followed in Spring 2011 by being ranked 3rd in The Guardian University League Table.

Professor Mike Lewis, Dean of the School, said, "It is gratifying that our efforts are being recognised in this way, and the feedback we obtained via the National Student Survey was especially pleasing given that it is completed by final year undergraduate students who are best placed to judge us on the quality of our educational provision. The direct feedback we receive from students, funders and other stakeholders is of utmost importance to us, and we are very grateful to them for their support and contribution to our success".



Paul Crompton, Media Resources Centre Director, said: "This is a great achievement for the Media Resources Centre, and recognises the exceptional work of Ruth and Christie on this project. The HESCA awards recognise the unique skills and specialist knowledge involved in creating biomedical communications that are tailored specifically at the needs of a particular audience."



Christie Lennox (left) and Ruth Lewis-Bowen

## Cardiff appoints its first female Deputy Vice-Chancellor



**Professor Elizabeth Treasure, former Dean of the School of Dentistry, has become the first female Deputy Vice-Chancellor in the University's history.**



Professor Elizabeth Treasure

During her tenure as Dean of the School of Dentistry, Professor Treasure led a major restructuring of the School, enabling it to be recognised as one of the top 5 UK dental schools for education and research. Professor Treasure said: "I am very much looking forward to my new role in the University and working to meet the demands ahead in the future. The University has a clear strategy going forward which will help it achieve its aims and I feel privileged to have been given the opportunity to help drive this forward."

Vice-Chancellor Dr David Grant, said: "I welcome Professor Treasure's appointment at Deputy Vice-Chancellor. She brings with her inspirational leadership which the University will benefit from, particularly as we move forward with a number of important strategic developments across the University."

## School alumnus awarded CBE in Queen's Birthday Honours List



**Dr Paul Langmaid, former Chief Dental Officer for Wales and alumnus of the School of Dentistry, has been awarded a CBE for services to dentistry in the Queen's Birthday Honours List.**

Dr Langmaid graduated from the Cardiff School of Dentistry in 1975, before undertaking house officer posts in oral and maxillofacial surgery at Cardiff Royal Infirmary and University of Wales Hospitals, and in paediatric dentistry at Cardiff Dental Hospital, before going into general practice in Cornwall in 1976.

He worked in the three main components of NHS dentistry (general dental services, community dental services and hospital dental services) and also in Israel and Romania.

From 1986 to 1992 Paul worked for the Overseas Development Administration as a Technical Co-operation Officer in the British West Indies. He joined the Civil Service as a Senior Dental Officer in December 1993 and was appointed Chief Dental Officer for Wales in November 1996, a position he held until 2010 and where he provided independent professional dental advice to the First Minister of the Welsh Assembly Government, and other ministers and policy makers.

Dr Langmaid said:

**"My CBE is a real testament to those who gave me the opportunity to study dentistry in Cardiff and who opened**

**my eyes not only to the practise and theory, but the ethics of the profession. I've been overwhelmed by the messages, letters and cards I've received from former teachers, colleagues past and present, family and friends to all of whom I owe so much".**



Dr Paul Langmaid

Commenting on Dr Langmaid's award, and the other awards concerning Cardiff University staff, Vice-Chancellor Dr David Grant said: "These awards recognise the significant contributions made by each of the recipients and I am delighted to extend congratulations to them on behalf of the entire University."

# Dental student fills gap in the market



David Stone (left) at the 2010 HSBC Start Up Awards

In 2009, dental student David Stone used his personal experiences to spot a gap in the market and set up his business, UK Loupes. Noting that many dental students developed back problems from leaning over patients, David decided to produce and sell magnification glasses, or loupes, at prices which students could afford.

David utilised various Cardiff University Student Enterprise services when starting up the business. "I've got a lot to thank Student Enterprise for, because they were the people I went to initially for help", he explains.



Firstly, David won £1,000 first prize in the Spark Business Idea competition, supported by Santander Universities. Student Enterprise also pointed him in the direction of various sources of funding for getting the business up and running. "They highlighted a few awards that had a financial prize at the time", David explains. "The first real injection

of funds came from the Spark prize. Since then we've won another £1,000 award from Shell Livewire and been finalists in the HSBC 2010 Start Up Awards".

UK Loupes is going from strength to strength, and David now has UK Loupes Sales Agents in various dental schools around the UK, offering an affordable solution to students nationwide.

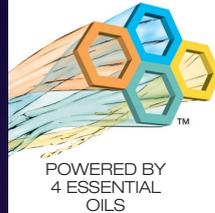
For more information, see [www.ukloupes.co.uk](http://www.ukloupes.co.uk)



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References: 1. Data on file 45348, McNEIL-PPC, Inc. 2. Data on file, microbiology dossier, McNEIL-PPC, Inc. 3. Data on file 103-0214, McNEIL-PPC, Inc.



David Gray (top right) training local dental medics

## Student Trip To Bhurma Refugee Camps



David Gray, a 4th Year dental student, joined Dr Martin Hussain, (Dental Adviser, Lambeth PCT) and his two medical teams on a trip to Bhurma recently to work in the IDP refugee camps on the Thai/Burma border.

Dr Hussain thanked Professor Chadwick, David's Tutor and the School on behalf of the Trustees of Hope 4 the World for releasing David to join them on the trip. Dr Hussain wrote they had a very fruitful time and achieved their goals, namely training 55 paramedics in two camps working with the Karen Health and Welfare Department and The Shan Health Committee.

David was part of two teams made up of Doctors, Midwives, nurses and dentists working to

train local medics to treat their own people. David trained three dental medics in extractions, management of acute dental emergencies and the atraumatic restorative technique (ART).

Dr Hussain commented on David's strong knowledge, clinical ability and communication skills. David also took part in the teaching of theory with Dr Hussain and his colleagues.



## Final Year Undergraduate Student Volunteer work in Vietnam

In Summer 2010 James Ban, a final year undergraduate student from that year, undertook voluntary work in the Hanoi region of Vietnam, where he assisted dental practitioners in local community practices. His trip was sponsored by Henry Schein Minerva Dental who provided the consumables for the voluntary work James carried out. James has now returned to the University Dental Hospital in Cardiff as a Senior House Officer.



James Ban (left) with former Dean, Professor Elizabeth Treasure and representatives from Henry Schein Minerva Dental

# Alumni Profile



## Professor Malcolm Jones



Professor Malcolm Jones

**Professor Malcolm Jones is a former Dean of the School of Dentistry and former Pro-Vice Chancellor at Cardiff University. A Consultant in Orthodontics, he retired in December 2010, and talks to *wisdom* about a career which saw an enormous amount of change in Cardiff.**

Professor Malcolm Jones graduated from the School's relatively new Bachelor of Dental Surgery course in 1973. After being encouraged by Professor Neil Swallow to embark on a career in paediatric dentistry, he spent a year as a children's dentist in Derbyshire. He then changed direction and following various hospital posts in maxillo-facial surgery, he applied for specialist training in Orthodontics in London, undertaking his clinical training in Kingston Hospital and studying for a Masters degree at the Royal Dental School. Whilst there Professor Bill Houston encouraged him to consider a career in academia. By coincidence, the first job that appeared was back in Cardiff.

As a Lecturer, then Senior Lecturer/Consultant, Professor Jones had responsibility for the postgraduate training programme for nearly a decade. Made a Professor and Head of Department in 1992, he was appointed Dean of the School in 1999, a position he held until 2006 when he became Pro-Vice Chancellor for Health and Estates within Cardiff University. During his time in Cardiff, Professor Jones saw two NHS Trust reconfigurations and the merger of Cardiff University and the University Of Wales College Of Medicine in 2004.

### **Why did you choose to study dentistry in Cardiff?**

It was in Wales! I decided to embark on a career in dentistry whilst travelling in Canada. When I phoned my father and told him I wanted to do this in Toronto, he said no! My family originate from North Wales so studying in Cardiff was logical. Also, it was a new School with new ideas and new equipment so it was very attractive. I was admitted into the School via 'clearing' after taking a gap year.

### **What is your favourite memory from your time in Cardiff?**

The people I studied with - it was a very close year. I have some particularly fond memories of Friday nights in Med Club!

### **What is the most important thing you learned during your time in the School?**

How to communicate with patients, which I learnt initially in Paediatric Dentistry. Professor Neil Swallow, who led in this area, set a very good example and an awful lot of effort went into communication. Patient management was key in the teaching in that department.

### **What is the proudest achievement in your career?**

Two things stand out. Receiving an Honorary Medical Degree from Riga University in Latvia was a complete but wonderful surprise. I had been involved in the rejuvenation of the dental school there, and its reorganised undergraduate curriculum, supported by substantial EU grants over a decade. Secondly, receiving the Faculty Medal of The Royal College of Surgeons of Edinburgh last year was a tremendous honour.

### **What challenges will dentistry face in the next 10 years?**

There will be three key challenges. Firstly, dealing with the significant perceived expense of training dentists. Politicians are already looking for cheaper ways, but there are significant dangers in moving away from the academic basis. Secondly, addressing the shortage of dentists and needing to train more within the existing resource envelope. More dedicated primary care training is the way forward, such as the units operated by our School at St. David's Hospital and Cynon Valley Hospital. Thirdly, the way NHS dentistry will be funded in the future. The way a service is funded profoundly effects the service the public receives.

### **What are you doing now?**

After retiring last December, I spent 7 weeks travelling around New Zealand, and now have plans to finish rebuilding a boat together with Mike Hill. I am also still

a part-time member of the Cardiff & Vale University Health Board.

### **What advice would you give to a student thinking of studying in Cardiff?**

Come! Cardiff is a great city in which to study. Cardiff University provides outstanding facilities and a great student community. Facilities in the University Dental Hospital are second to none and a very progressive course is now offered by the School.

### **What advice would you offer to those students due to graduate this summer?**

Take your time before deciding on your career path, whether you want to specialise, and where to train. There are a huge number of options and opportunities all over the world and well trained dentists are in international demand.

## **Award for a career of service to the dental profession**

**Professor Malcolm Jones has been awarded the Faculty of Dental Surgery Medal of the Royal College of Surgeons of Edinburgh at a ceremony in Edinburgh.**

Only one medal is awarded each year and it is in recognition of international contributions to the profession over the course of a career. Professor Jones' award was for his achievements and work in dentistry, during which time he has been the Dean of the Cardiff School of Dentistry and General Manager of NHS Dental Services. He has also been an active member of the General Dental Council, during which time he served on the Professional Conduct Committee, was a national and international inspector of programmes and was much involved in overseeing the development of new Graduate Entry UK Schemes. Professor Jones has been the Executive Secretary of the UK Council of Dental Deans, was the founder Chair of the Forum of European Heads and Deans of Dental Schools (European Council of Dental Deans) and was, until recently, President of the Association for Dental Education in Europe (ADEE), a body which represents nearly 200 schools across the continent. As might be expected of someone receiving such an award, he has been a busy

# Student Profile



## Aly Virani

**Aly Virani is a 5th year student on the Bachelor of Dental Surgery (BDS) programme. Born in Kenya, he was President of the Dental Student Society in 2010/11.**

### What made you choose to study in Cardiff?

A lot of students in Kenya choose to come to the UK or USA for their university education. My sister was already in the UK in London so that influenced me. Cardiff was my first interview and I was so impressed I didn't attend any others! The city felt very different to London – very green and very relaxed. The sporting facilities and sporting culture within Cardiff University were a big attraction. Above everything else though, I am very thankful to my parents for encouraging me to go to university.

### Why dentistry?

I wanted to go into a healthcare profession. I come from a family of accountants, and I very much wanted to work with people, not products. My dentist back home in Kenya was very enthusiastic about the profession and influenced my decision.

### Did you experience any challenges adjusting to life in Cardiff?

Not really. I did a Foundation Year and that really helped me settle into a new country and get used to the expectations of university study. There were 6 dentists on the Foundation Year and we became a close-knit group. There is a huge international student community in Cardiff that I became involved in via Fresher's

Week and sporting events which was really good. I actually think I know more Kenyans in Cardiff now than I do in Kenya!

### How would you rate the School's facilities?

Really good. Some of the clinics have been refurbished in recent years, and the lecture theatres and phantom head laboratory facilities are very good. In terms of the University as a whole, the sporting facilities are excellent. In fact I know friends from other universities who come to Cardiff to use our facilities.

### Has the course fulfilled your expectations?

Yes, and when there have been issues I've been really impressed by the School's willingness to listen to the students and work with us to change things.

### You were President of the Dental Student Society in 2010/11. How was that experience?

It was the most difficult thing I've ever done, but also the most rewarding. I've been really impressed with how people work together when there is something to be done. The highlight for me has been the way the student body pulled together to raise money for charity, which is one of the key objectives of the Dental Student Society.

### What has been your favourite aspect of the course?

Having plenty of exposure to patients early on in the course. Because we are progressively introduced to clinics, its only in retrospect that I can fully appreciate how exciting it has been to perform more challenging procedures every year. Problem solving in clinical sessions brings together all of the lectures and practicals, and is a satisfying reward for our hard work.

### What are your ambitions after finishing the course?

I'm undecided at the moment. Having lived in Kenya and the UK it might be nice to get experience of a third country. I would like to do some dental aid work

at some point as I want to contribute to helping people. Both the academic and private practice career paths are attractive. The academic side is interesting, especially the chance to influence policy that can improve healthcare for entire populations.

### Would you recommend the School to others?

I would and I have. The School's greatest strength is its willingness to help and guide its students. Also Cardiff as a city is a relatively small, inexpensive place to live, and has everything you could want. It's a great place to be a dental student, and I cannot imagine studying at a dental school anywhere else.

### What advice would you give new students coming to the School?

Initially you may not understand why you are studying certain things, but when you start working on the clinics it will all make sense. To this day I use the information that I learned on my first day of the BDS. Also, a deadline does not mean that you have to finish your assignment on that day - this course is only as stressful as you allow it to be.

**“The School's greatest strength is its willingness to help and guide its students. It's a great place to be a dental student, and I cannot imagine studying at a dental school anywhere else.”**



Aly Virani  
on clinic



Standing left to right, Professor Jim McDonald (Reader of Citation), Professor Malcolm Jones, Dr David Felix (Dean of Faculty, Royal College of Surgeons of Edinburgh) and Mr David Tolley (President, Royal College of Surgeons of Edinburgh).

member of the Dental Council of the Royal College, also being an international examiner, and was a member of the Speciality Advisory Board in Orthodontics for nearly two decades. During this time Professor Jones did much to assist the development of international collaborations for the RCS particularly in Latvia, China and India, all of which now host RCS examination centres.

After receiving the medal, Professor Jones said:

**“It was both a genuine honour and a surprise to receive this gold medal. I have been very fortunate in the course of my academic career to receive various awards but I am aware that this medal is widely recognised as one of the most prestigious in dentistry”.**

## Alumnus Support for Orthodontics Students



The inaugural award of the Clement Chan Scholarship in Orthodontics was made to two postgraduate students in July 2011.



From left to right: Professor Stephen Richmond (Programme Director and Professor of Orthodontics), Mark Bainbridge, Jacqueline Harnett, Professor Mike Lewis (Dean)

Dr Clement Chan is an alumnus of the School, and has provided generous support to establish a Scholarship in his name to support the postgraduate education for the best Home/EU students on the MScD in Orthodontics.

The reciprocants of this year's award are Mark Bainbridge and Jacqueline Harnett, both 1st year students on the course. They will have 50% of their 2nd year tuition fees funded by the Scholarship.

Professor Stephen Richmond, Director of the MScD in Orthodontics, said, "The Clement Chan Scholarship provides much needed support to talented Home/EU students on the course, and both the School and the students are very grateful to Dr Chan for his generosity".

Both students have also expressed their gratitude to Dr Chan. Jacqueline Harnett said "I am delighted to receive the Clement Chan Scholarship. It is a fantastic prize and it will help immensely with my tuition fees. It was very



Professor Lewis (left) and Dr Clement Chan

generous of Dr Chan to arrange it and I will always be very grateful to him".

Mark Bainbridge said,

**"It is an honour to receive such a generous offer which will allow me to concentrate on producing a quality research paper over the next phase of my training".**



Professor Brian Cooke

## Brian Cooke Memorial Lecture Day and Alumni Dinner



October 2011 will see the second bi-annual Lecture Day and Alumni Dinner in memory of Professor Brian Cooke.

Professor Cooke founded the Cardiff School of Dentistry in 1966, and was Dean until 1982. In 2009, in honour of Professor Cooke's enormous contribution to dentistry in Wales and beyond, the first Memorial Day was held, with 150 alumni and staff attending both the Lecture Day and the Alumni Dinner.

This year's event will include a keynote speech by the Chief Dental Officer for Wales, Mr David Thomas, several CPD-related lectures, and a reunion dinner at the 5\* St David's Hotel in Cardiff Bay for 200 alumni and staff.

This opportunity for the alumni to come together for an enjoyable and informative occasion will be repeated every two years, and we would encourage all alumni to join us at future events.



Talking Points  
in Dentistry



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# In Memorium

## James Neil Swallow 2010

James Neil Swallow was appointed as Senior Lecturer under Professors Cooke and Miller in 1964 to the newly established Dental School to lay the foundation for dental education. Neil was responsible for Children's Dentistry which included the management of children and adults with physical and learning difficulties. He was an inspirational teacher and many of his students became specialists in Paediatric Dentistry. He brought fresh and challenging insights to all areas of Dentistry within the School and academia.

## John Stokes 2010

John was born in Llwynypia in the Rhondda Valley. He qualified with BDS (Wales) in 1983 at Cardiff Dental School and worked in Gwent Community Dental Services until 1986. In 1984 he started on a part time basis within the practice, becoming full time in 1986. He became a partner in the practice in 1994 when the practice moved premises and it became known as 'The Church Road Dental Practice'.

## Mark Brennan 2010

Mark Brennan joined the School of Dentistry as Lecturer in Dental Education in the Department of Dental Health & Biological Sciences in 1998 and left at the end of February 2005 to take up the post of head of the Division of Clinical Education in the Kent Institute of Medicine and Health Sciences at the University of Kent at Canterbury.

## Viren Patel 2010

Mr Patel ran the Orthodontic Centre, Cardiff Gate Business Park, Pontprennau, since 1989. He qualified as a dentist in Cardiff in 1980 and served for five years as a Surgeon Lieutenant in the Royal Navy. He worked in the Department of Facial and Maxillofacial Surgery at Southampton General Hospital and returned to Cardiff in 1986.

## Darren Eastmond 2010

Darren qualified from the School of Dentistry in July 2005. Although Darren was originally from Barbados he stayed in the UK following graduation and was most recently working as a General Practitioner at The Manor House Dental Practice, St Austell, Cornwall.

## Charlotte O'Donaghue 2011

Charlotte qualified as a dental nurse at the School of Dentistry in 2006 after undertaking a 2 year course. After qualifying Charlotte worked as a Dental Nurse in the Hollies Community Dental Clinic in Merthyr Tydfil.

## Katrin Buerger 2011

Katrin Buerger and three other members of her family tragically lost their lives in a skiing accident in Norway. Katrin worked predominantly in BIOSI, but was employed on Phil Stephens' EPSRC grant run from DENTL. Katrin's enthusiasm and fun approach to life was one of the key reasons we offered her a position in Cardiff and so she will be sorely missed. She was a talented young scientist and this is a tragic, premature end to a promising career.

## W Byron Jones 2011

W Byron Jones qualified from the School of Dentistry in 1976 and worked as a general dental practitioner in West Wales.

## John Miller 2011

Emeritus Professor of Child Dental Health at the University Hospital of Wales and former Dean of the School. John Miller was one of the founding academics in the specialty of children's dentistry and died on 9th July 2011. A gifted, kind, generous teacher he inspired many students and was internationally renowned for his contribution of caries research and the understanding of developmental anomalies of tooth development as well as children's dentistry internationally via the FDI.

In 1963 he joined Professor Brian Cooke to develop the clinical training at the Dental School in Cardiff, where he remained for his career becoming Dean in 1983 until 1985. Retiring in 1985 he took up making violins and playing golf.



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