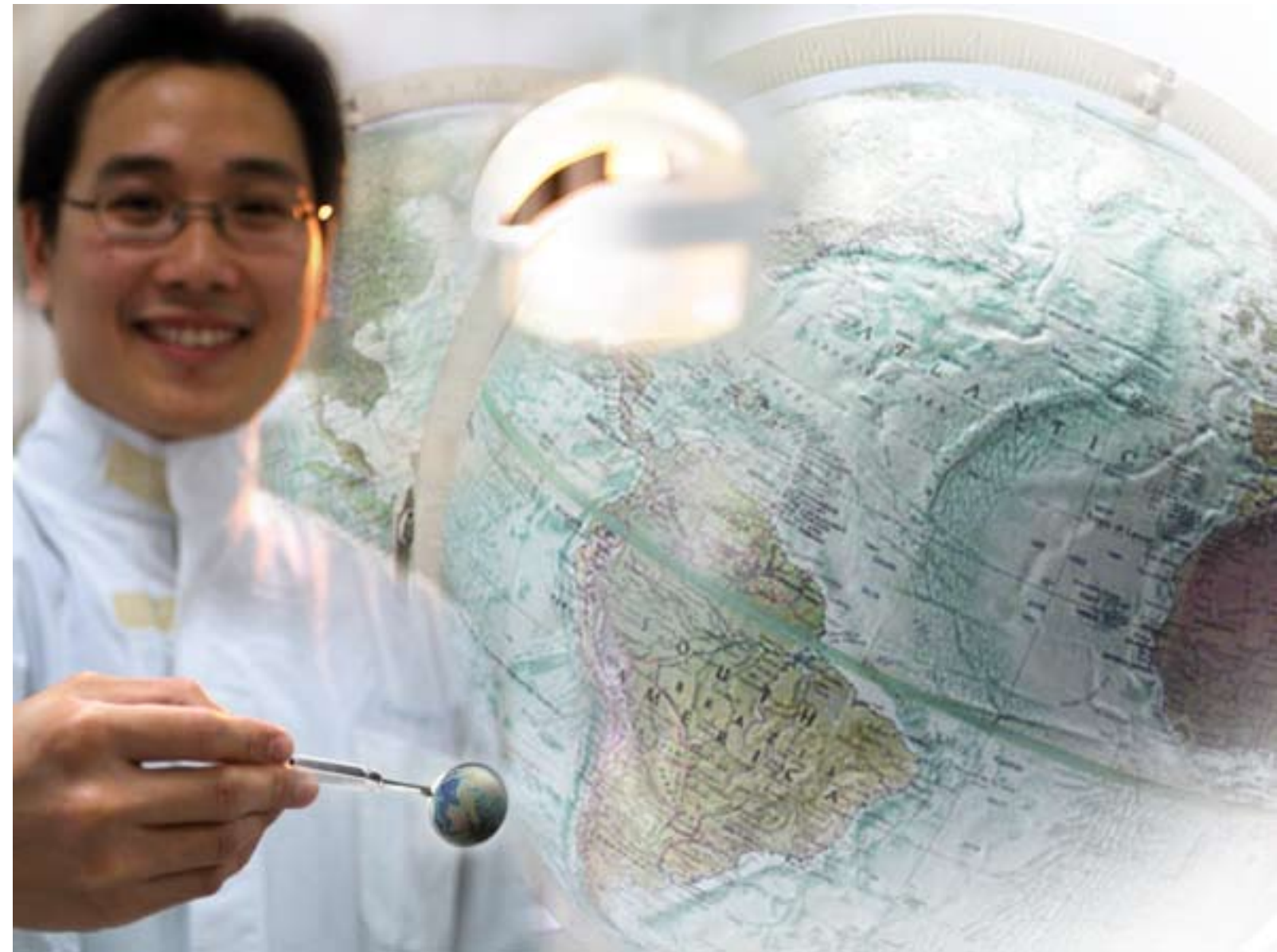


AnnualReport 05/06
FACULTY OF DENTISTRY



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“.... the Faculty must continually evolve to embrace advances in education, achieve peaks of excellence in research, provide leadership and service to the profession and society and meet the expectations of stakeholders.”

MESSAGE from the dean

The Faculty joined the University's Centennial Celebrations in its hosting of 100 events to mark the centennial year. Together with the Yong Loo Lin School of Medicine and the Pharmacy Department, Faculty of Science, the Faculty co-hosted the Centennial Medical Dinner at the Istana last July. Faculty, alumni, friends, donors and the graduating class of 2005 came together and celebrated the occasion in style. It was a truly memorable evening. In November 2005, the inaugural Faculty of Dentistry Symposium also marked another milestone for the Faculty with a slate of internationally renowned speakers for the three-day symposium and workshop. More than 300 participants from all over the world registered for this event.

The landmark corporatisation of The National University of Singapore (NUS) took effect on 1 April 2006. NUS is now a not-for-profit University company empowered to “chart our own future”. Singapore's transition into a knowledge-based economy requires a strong global orientation and this places new demands on the university and its graduates. NUS must be more nimble in creating an environment that attracts the best people and allows them to realise their full potential.

A University-wide Strategy Review has charted the path forward with milestones and strategic objectives to steer the University towards meeting the challenges of an increasingly competitive global landscape and achieving our collective vision of being one of the leading public universities in the world.

In tandem with the University Strategy Review in preparation for Corporatisation, the Faculty undertook a Strategy Review from February to September 2005, with input from all stakeholders - faculty, alumni, students and administrative and professional support staff. New Mission and Vision statements were adopted and eight Faculty objectives articulated to guide the Faculty in striving towards our Vision “To be a dental institution of international distinction”.

The Faculty Strategy Review involved engaging our principle stakeholders to align strategy, processes, people, skills, technology and knowledge. It is clear that in a constantly changing environment, the Faculty must continually evolve to embrace advances in education, achieve peaks

By engaging all stakeholders in the strategic plans, we hope to engender the spirit of ownership and common purpose to foster the synergies necessary to propel the Faculty to new heights.



of excellence in research, provide leadership and service to the profession and society and meet the expectations of stakeholders. Hence, the new Mission statement – “Improve oral health through academic excellence, high impact research and quality clinical service”. By engaging all stakeholders in the strategic plans, we hope to engender the spirit of ownership and common purpose to foster the synergies necessary to propel the Faculty to new heights. Arising from the strategic plans charted for the medium and long term, the Faculty will embark on strategic initiatives for the expansion in advanced dental education and focused high impact research activities. Expansion in the number of continuing dental education programmes will be spearheaded by the establishment of the Centre for Advanced Dental Education (CADE). The Faculty will launch its first Graduate Diploma with the Graduate Diploma in Dental Implantology and will expand the intake of students for its MDS programmes in response to increased demand from quality applicants throughout the region. In the academic year of 2006, the MDS Orthodontics residency programme will double its intake. Building on key research strengths, the Faculty will also establish three research units - the Centre for Craniofacial and Regenerative Biology (CCRB), the Dental Biophotonics and Biomaterials Programme (DBBP) and the Craniofacial Clinical Research Unit (CCRU) to improve oral health and delivery of clinical care.

The Faculty's strategic plans and initiatives were endorsed by the International Advisory Panel (IAP) comprising Prof David Johnsen, Dean of the School of Dentistry, University of Iowa and Prof Edwin Yen, Dean of the Faculty of Dentistry, University of British Columbia, who visited the Faculty in February 2006. The IAP validated our educational and research programmes and has made recommendations on specific areas of development on how the Faculty can move forward in this challenging landscape.

The Faculty continues to forge ahead with its research mission. External recognition of the quality of research is evident in the research prizes and awards won at the national and international level. Some research highlights are:

- A faculty research team in collaboration with Rapid

Tech Pte Ltd won *The Enterprise Challenge Award: The Enterprising Agency Award* for the project, “In-vitro, In-vivo and Clinical Trials of Bio-Scaffold for Bone Reconstruction and Implants” at the PS21 ExCel Convention. The award from the Prime Minister's Office recognises efforts in championing radical innovations and taking the lead to pilot trials.

- BioMers - a multi-faculty team, including Faculty of Dentistry staff, won the top prize in the “Asia Idea to Product (I2P)” Competition and the 6th “Start-UP@ Singapore National Business Plan” Competition. BioMers also came in second at the “Idea to Product” Competition at the University of Texas and won the “Special Prize for the Best Technology Impact Plan” at the Intel-UC Berkeley Technology Entrepreneurship Challenge hosted by UC Berkeley. The project involves developing and commercialising aesthetic orthodontic brackets and “invisible” archwires to put completely aesthetic braces to market.
- A team of Junior College students supervised by a faculty member won the Gold Award at the Singapore Science and Engineering Fair, organised by the Ministry Of Education, A*STAR and Singapore Science Centre, for their project “In-vitro study of Inhibiting Effect of Er: Yag laser on Enamel Demineralisation in Adverse pH Condition”.

As we embark on our strategic plans to achieve our new Vision and Mission, my colleagues and I in the Faculty look forward to garnering the robust support of all alumni and friends for the continual advancement of oral health through academic excellence, high impact research and quality clinical service.

Assoc Prof Keson Tan
Dean

VISION

To be a dental institution of international distinction.

MISSION

Improve oral health through academic excellence, high impact research and quality clinical service.

Our mission will support the three thrusts of NUS: Quality Education, High Impact Research and Entrepreneurship, In Service of Country and Society.

By providing a vibrant and challenging environment, the Faculty strives to produce clinically competent, socially and ethically responsible professionals who will be leaders in the community.

Excellence in our educational programmes and high impact innovative research will be the foundation upon which we will advance knowledge and nurture students to realise their full potential along with a passion and commitment to independent lifelong learning.

FACULTY OBJECTIVES

In line with the University’s objectives, the Faculty aims to be the leading dental school in the Asia Pacific region within the next 10 years and a top ranking dental school internationally within 20 years.

The Faculty will be guided by eight objectives to achieve our Vision to be a dental institution of international distinction:

- To be the educational hub for dentistry in the region, a confluence where the very best dental students, staff and faculty interact and learn from one another.
- To establish a vibrant and conducive environment for high impact research, excellent teaching, and professional clinical service.
- To produce clinically competent graduates with a sense of professionalism, ethical and social responsibility.
- To develop peaks of excellence of high impact research.
- To be the regional centre for postgraduate clinical specialty training programmes that are recognised for their excellence and graduates who are leaders in their clinical specialties.
- To strengthen bonds with students, alumni and other stakeholders; building bridges that transcend the academic experience.
- To provide leadership in the development of the profession.
- To contribute towards life-long learning for the dental profession.

DEANERY



(L-R)
A/P Keng Siong Beng Assistant Dean (Clinical Affairs)
A/P Kelvin Foong Weng Chiong Vice Dean (Research)
A/P Keson Tan Beng Choon Dean
A/P Grace Ong Hui Lian Vice Dean (Academic Affairs)

DEAN’S OFFICE



(L-R)
Dr Cao Tong
A/P Keson Tan Beng Choon
A/P Kelvin Foong Weng Chiong

DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY



A/P Yeo Jin Fei | Head of Department



Prof Loh Hong Sai | Professorial Fellow



A/P Ho Kee Hai | Associate Professor



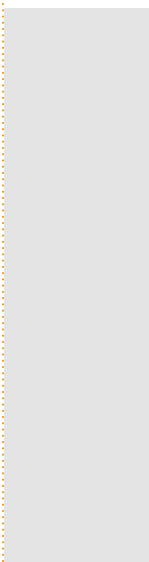
Dr Victor Fan Tai Weng | Assistant Professor



Dr Ho Kok Sen | Adjunct Assistant Professor



Dr Aidan Yeo Choon Poh | Adjunct Assistant Professor



Dr Egwin Yeo Jun Chern | Dental Instructor



Dr Xu Liqun | Visiting Fellow



A/P Grace Ong Hui Lian | Head of Department



A/P Teo Choo Soo | Associate Professor



A/P Lim Lum Peng | Associate Professor



A/P Kelvin Foong Weng Chiong | Associate Professor



A/P Stephen Hsu Chin-Ying | Associate Professor



Dr Soh Jen | Assistant Professor



Dr Mohd Azharashid bin Mohd Tahir | Assistant Professor



Dr Betty Mok Yuen Yue | Senior Lecturer



Dr Teresa Loh-Lee Woon Oi | Adjunct Associate Professor



Dr Khurram Ataulah | Visiting Fellow

Dr Holy Koh Jr | Adjunct Assistant Professor

DEPARTMENT OF PREVENTIVE DENTISTRY

DEPARTMENT OF RESTORATIVE DENTISTRY



A/P Jennifer Neo | Head of Department



Prof Chew Chong Lin | Professor



A/P Keng Siong Beng | Associate Professor



A/P Keson Tan Beng Choon | Associate Professor



A/P Adrian Yap U-jin | Associate Professor



A/P Varawan Sae-Lim | Associate Professor



Dr Chng Hui Kheng | Assistant Professor



Dr Anil Kishen | Assistant Professor



Dr Willy Chang Shian Wei | Assistant Professor



Dr Hilary Thean Pik Yen | Senior Lecturer



Dr Neo Tee Khin | Adjunct Assistant Professor



Dr Joanne Ngo Uy | Visiting Fellow



Dr Wendy Wang Chia Wei | Visiting Fellow





INITIATIVES
highlights

“ NUS is now a
not-for-profit University Company
empowered to “chart our own future” ♦ ”

INITIATIVES highlights of the year



FACULTY OF DENTISTRY
annual report 05/06

11

FOCUS: Faculty's Strategic Plans

The University-wide strategic review was completed in November 2005 and approval was granted for the Faculty to proceed with its strategic initiatives. The key strategies are to attract quality students, recruit and retain talented Faculty staff, improve the educational experience, improve research impact and output, and ensure effective corporatisation through strong governance and effective management systems.

Faculty Level Strategies

At the Faculty level, our strategies are guided by:

7 core university level strategies

1. Best People

recruit, nurture and retain
best quality people

7. Best Practices in Governance

adopt and adapt best international
practices in administration,
management of resources and faculty
staff and student services

2. Best Students

attract best quality
students, from diverse
backgrounds, who are
academically strong and
have passion, commitment
and leadership potential

6. Strong Global Profile

enhance NUS profile and impact as
global leader among Universities

3. High Quality Educational Experience

provide a high quality, globally-oriented
educational experience that stretches
students and develops skills and values to
enable them to reach their full potential.

5. Spirit of Enterprise

inject spirit of enterprise into education
and research

4. High Impact Research

make advancements to knowledge
and its application which are of high
international quality and/or impact

Plans to implement these strategies will include ways to improve competitiveness through successful corporatisation, enhancing student quality at undergraduate and postgraduate levels, expansion of a pool of internationally recognised faculty staff, strengthen and differentiate NUS education, increase impact of research, substantially upgrade faculty infrastructure, and enhance alumni support and raise resources substantially.

Strategic Initiatives

In the course of determining our strategies, the Faculty has also identified the following main strategic priorities, namely:



Event Highlights

International Advisory Panel Visit



Professor David Johnsen, Dean of University of Iowa and Professor Ed Yen, Dean of University of British Columbia visited the Faculty as an International Advisory Panel (IAP). They were invited by the University to provide expert advice on major trends and directions in education and research in Dentistry amongst other terms of reference for their visit.

The IAP met with the stakeholders including Faculty staff, students, part time lecturers and the Advisory Committee. A report on their visit has been submitted and their recommendations include highlights on institutional planning, academic governance, the current Faculty situation, Faculty research directions and performance, curriculum teaching and methodology for both undergraduate and postgraduate programmes, student profile and quality, external relations, alumni relations, facilities and infrastructure. The IAP also gave their comments on the impact of general external trends and professional requirements.



INITIATIVES education

“ Singapore’s transition into a knowledge-based economy requires a **strong** global orientation and places new demands on the university and its graduates. ”

Widening Educational Experiences - Student Exchange Programme

In September 2005, a total of 24 of our Third and Fourth Year dental students visited the following overseas dental schools:

Overseas Dental Schools	Number of Students
• University of British Columbia, Vancouver, Canada	4
• University of Sydney, Australia	4
• Tokyo Medical and Dental University, Japan	5
• Loma Linda University, California, United States of America	4
• University of North Carolina, United States of America	5
• Guys, King’s & St Thomas Dental Institute, United Kingdom	2



Loma Linda University



Tokyo Medical and Dental University

A total of seven students benefited from sponsorship from dental companies (KaVo Dental, Shofu Inc, Dentsply Asia), the Royal Australasian College of Dental Surgeons, and the Office of Alumni Relations.

The Faculty also received 21 international dental students who visited our dental school within the Academic Year 2005/6. They were from Hong Kong, Japan, United States of America and Australia.

Mentoring of Future Researchers - SSEF 2006 Bronze



Dr Anil Kishen, Assistant Professor with the Department of Restorative Dentistry, was involved in research mentorship of three Victoria Junior College students, namely Ms Goh Sher Li, Ms Chia Po Ying, and Ms Long Ying Ying. The students worked with Dr Anil in the Faculty’s Biophotonics Laboratory on a research project entitled “Investigation into utilising visible light for the diagnosis of incipient enamel caries”. The project subsequently won the bronze award in the 2006 Singapore Science and Engineering Fair (SSEF) competition, a national competition organised by the Ministry of Education (MOE), A*STAR, and the Singapore Science Centre (SSC). This is the second time a project mentored by Faculty staff won honors at the SSEF. Through the mentorship programme, the Faculty hopes to be able to foster an interest in research amongst junior college students and nurture researchers of the future.



NUS Dental Students win Hashim Yaacob Award & Challenge Trophy at Dental Student Scientific Conference held at University of Malaya, Malaysia

Dental students Mr Loke Wei Qiang, Mr Alvin Lee, Mr Terence Jee and Ms Bien Lai were Champions in the Oral & Poster Presentation competition (International Students category) at the 7th Dental Student’s Scientific Conference held at University of Malaya in Kuala Lumpur, Malaysia from 9 to 10 December 2005. They beat a total of 13 participants from five participating universities and were awarded the coveted Hashim Yaacob Award & Challenge Trophy.

Rewarding Academic Excellence in Postgraduate Education

The Society of Endodontists, Singapore donated the Society of Endodontists, Singapore Medal in 2005. The medal is awarded annually from the proceeds of a capital sum of \$30,000 and is presented to the best student in the Final Master of Dental Surgery (Endodontics) Examination. With the introduction of this new medal, the number of academic awards that may be awarded to postgraduate students for academic excellence in the Master of Dental Surgery residency training programme has grown to three.

Minimal Intervention

Minimal Intervention (MI) is a philosophy in managing caries that emphasises prevention of the disease process, remineralisation of early lesions and patients’ education and involvement in managing the disease.

The Faculty of Dentistry has adopted the use of Cariogram®, a caries risk assessment tool for the practice of MI and preventive strategies in the overall management of oral health in patients.

The MI philosophy will be implemented in the undergraduate teaching curriculum commencing July 2006. In preparation for the implementation, a series of seminars on the MI philosophy, the use of the caries risk assessment tool and preventive therapies was conducted for all full and part-time academic staff of the Faculty.



Centennial Medical Dinner

Medical, Dental and Pharmacy graduates joined in the once-in-a-lifetime celebration of 100 years of achievements at the Istana on 3 July 2005 for the Centennial Medical Dinner. More than 140 tables filled with graduates, guests and supporters, gathered together to honor the past and celebrate the future in a grand reunion in celebration of NUS’s long and established history in medical education.

Centennial Homecoming Luncheon

Dental Alumni from the 50’s to the 90’s gathered at NUS Multipurpose Sports Hall 2, Sports and Recreation Centre to participate in the festivities of the NUS Centennial Celebrations.

Continuing Dental Education Activities

The Faculty of Dentistry aims to play a more active role in providing continuing professional dental education to dentists in Singapore and the region. The Centre of Advanced Dental Education, which will be established as one of the Faculty’s strategic initiatives, will champion this direction and is committed to conducting at least one Continuing Professional Education course per month and to hold the Faculty of Dentistry Symposium as an annual event.

Symposiums

Date	Event Name/ Lecture Title(s)	Speaker(s)
4 & 5 November 2005	1st Faculty of Dentistry Symposium	
	• Esthetics for Life	Dr Cherilyn G Sheets
	• Aesthetic Provisional Restorations	Dr Wong Keng Mun
	• Enhancing Aesthetics with Periodontal Procedures	A/P Grace Ong Hui Lian
	• Achieving Aesthetics Success in the General Practice	Dr Wynn H Okuda
Leading the way with the First Faculty of Dentistry Symposium The inaugural Faculty of Dentistry Symposium, themed “Achieving Aesthetic Success in Dentistry”, was held at the Suntec Theatre, Suntec International Exhibition and Convention Centre on 4 and 5 November 2005. The two-day lecture series involved two invited international speakers – Dr Wynn Okuda and Dr Cherilyn Sheets – and two invited local speakers – A/P Grace Ong and Dr Wong Keng Mun. Some 310 participants attended the event. A workshop was also conducted on 6 November 2005 at the Faculty of Dentistry Dental Pre-clinical Laboratory with approximately 50 participants.		
4 March 2006	2nd Singapore - China Clinical Symposium on Oral & Maxillofacial Surgery	
	• The business of saving face - Introduction to cosmetic maxillofacial surgery	Dr Victor Fan Tai Weng
	• Functional reconstruction of defects in the jaws	Prof Yu Guangyan
	• Autologous Microvascular of submandibular glands for severe keratoconjunctivitis	
	• Osteo-odonto-keratoprosthesis: dental aspects	Dr Andrew Tay Ban Guan
	• Bioscaffolding in regenerative medicine	Dr Cao Tong
	• Aesthetic aspects of orthognathic surgery	Dr Chan Siew Luen
	• Different perception of facial attractiveness by Chinese and American Orthodontists on patents from both communities	Prof Xu Tianmin
	• Orthodontic considerations in orthognathic surgery - A clinician’s viewpoint	Dr Tan Hwee Hiang
	• Orthognathic surgery or orthodontics only - Decisions and outcomes	A/P Kelvin Foong Weng Chiong
	• Aesthetic Surgery - How to avoid medicolegal pitfalls	Dr Lawrence Ng



Date	Event Name/ Lecture Title(s)	Speaker(s)
Engaging China - 2nd Singapore - China Clinical Symposium The 2nd Singapore - China Clinical Symposium was held on 4 March 2006 at the Faculty Auditorium. The theme of the one-day symposium was entitled “Reconstructive and Cosmetic Aspects of Oral and Maxillofacial Surgery”. The foreign speakers from China were Professor Yu Guangyan, the Dean of the School of Stomatology at Beijing University and Professor Xu Tianmin who is the Chairman of the Department of Orthodontics of the same University. The invited local speakers were Dr Andrew Tay, Dr Cao Tong, Dr Chan Siew Luen, Dr Tan Hwee Hiang, A/P Kelvin Foong and Dr Lawrence Ng. The symposium was attended by more than 60 participants.		
28 May 2006	10th NUS Clinical Dentistry Symposium	
	• Post Space - The Temporary Occupation Permit?	A/P Varawan Sae-Lim Dr Neo Tee Khin
	• Breathing Difficulties in Children and Adults - Can Dentists Help?	Prof JP McDonald
	• How Long Will It Last? - and Why?	Prof Derrick Setchell
	• Bioresorbable Osteosynthesis in the Craniomaxillofacial Complex - Past, Present and Future	Prof Christian Lindqvist
	• Troubleshooting in Removable Prosthodontics	A/P Keng Siong Beng
	• Minimum Intervention - A New Dimension in Caries Management	Dr Mohd Azharashid bin Tahir
		

Courses/ Lectures/ Workshops

Date	Event Name/ Lecture Title(s)	Speaker(s)
13 July 2005	Fracture Mechanics for Dentists	Prof Michael Swain
21 July 2005	Dental Biomaterials: Are We Making Appropriate Choices?	Prof Michael Swain
25 July 2005	Advanced Ceramics and Dental Applications	Prof Michael Swain
15 October 2005	Study day on Wisdom Tooth Management	Dr Victor Fan Tai Weng Dr Myra Elliot Dr Andrew Tay Ban Guan Dr Chan Siew Luen
29 October 2005	Paediatric Dentistry and Traumatology – What’s New and Challenges for the Future	Prof Monty Duggal Prof Jack Toumba
6 November 2005	Composite Resin Workshop – Achieving Predictable Success with Direct Resin	Dr Wynn H Okuda
17 November 2006	Caries Risk Assessment – Today & Tomorrow – From clinical & epidemiological perspectives	Prof John Stamm
7 & 21 January 2006	Workshop on Minimal Intervention in Clinical Practice	A/P Stephen Hsu Chin-Ying Dr Mohd Azharashid bin Tahir A/P Jennifer Neo Chiew Lian A/P Hien Ngo
17 January 2006	Various Minor Tooth Movements using Micro-Implant Anchorage	Prof Kyung Hee Moon
23 February 2006	Oral Disease as a Risk for Systemic Diseases	Prof Ray C Williams
21 March 2006	World-Wide Orthodontics	Prof Toshio Deguchi
10 April 2006	Changing Paradigms in Oral Microbiology: Its Growing Significance in Systemic Diseases	Dr John G. Thomas
19 May 2006	Treatment Planning in the Complex Implant Patient	Prof Richard Palmer

Refurbishment of Teaching Facilities

The Faculty strives to improve the existing facilities and environment to better support teaching activities. For the Academic Year 2005/2006, new rooms were converted from vacated research laboratory space and several rooms expanded to accommodate a projected increased intake of undergraduates. The renovations undertaken include the following:

- **Seminar Room 1B (March 2006)**
Added additional tables & chairs for increased intake. Removed display cupboards.
- **Tutorial Room 2F (March 2006)**
Converted vacated research laboratory space to a Histology Museum and library for dental journals.
- **Seminar Room 2A (June 2005)**
A new seminar room was created from vacated research space.
- **Expansion of Tutorial Room 2B (December 2005) as well as 2C and 2D (June 2006)**

INITIATIVES
research



“ NUS must be more nimble in creating an environment that attracts the best people and allows them to realise their full potential. ”

Linking with University Medical Centre Groningen



A delegation from the University Medical Centre Groningen (UMCG) visited the Faculty of Dentistry on 13 March 2006. The visit aimed to establish strategic research collaboration in the areas of lineage differentiation of adult & embryonic stem cells and tissue regeneration between the University Medical Centre Groningen and the Faculty of Dentistry, NUS. To this purpose, a Letter of Intent was signed between A/P Keson Tan, Dean of Faculty of Dentistry and Prof Dr Sibrand Poppema, Dean, University Medical Centre Groningen.

RapidTech & R-Scaffold

Dedication to alleviating suffering of oral cancer patients has led Dr Victor Fan on an arduous search for the ideal scaffold that forms a matrix congenial to the regrowth of bone. It is a process crucial in reconstructive surgery for patients with facial deformities after cancer surgery or facial injuries.

In 2005, Dr Fan teamed up with Dr Cao Tong, who leads a stem cell research team in NUS and Rapid Tech Pte Ltd, a research start-up company, to further his pursuit. They decided to use a polymer which is able to biodegrade in the body within six months. There are no toxic side effects and it retains the necessary strength and shape to allow bone regeneration to occur in the crucial first few months of implantation

thereby avoiding the downside of existing implants and reconstruction which may remain in the body for a lifetime and cause infection and inflammation.

The novelty of the team's project - In-Vitro, In Vivo and Clinical trial of Bioscaffold for Bone Reconstruction and Implants - won them The Enterprise Challenge (TEC) 2005's Enterprising Agency Award and Innovator Award presented by the Prime Minister's Office. The Award will provide funding for the team to translate their research and technology into clinical trials paving the way for more successful implant and reconstructive surgery.



Research Achievements & Awards for Financial Year 2005/6

• Number of high quality publications	24
• Number of International Research Awards:	6
• Number of Local/ Regional Research Awards:	6



INITIATIVES
clinical services

“ A University-wide Strategy Review has charted the path forward with milestones and strategic objectives to steer the University towards meeting the challenges of an increasingly competitive global landscape and achieving our collective vision of being one of the **leading** public universities in the world. ”



Engaging internationally recognised clinical expertise - HMDP Visiting Expert



The Department of Preventive Dentistry invited Professor Kyung Hee-Moon, Head of the Department of Orthodontics, School of Dentistry Kyungpook National University Korea as the HMDP Visiting Expert for 2006. Prof Kyung, who is one of the pioneering clinicians to develop the Absoanchor® Orthodontic Microimplant system for the management of orthodontic cases that require absolute anchorage, conducted a five-day course entitled “Various minor tooth movements using microimplant anchorage”. The HMDP programme which took place from 16 to 20 January 2006 consisted of lectures and live demonstrations of the surgical procedures for implant placement. The programme was attended by clinicians in institutional and private practices and postgraduate students from the clinical disciplines of orthodontics, oral surgery and periodontics.

At the forefront of technology with the 3dMD™ Face System



The Faculty is the first in Singapore to acquire the 3dMD™ Face System that was specially designed for fast and highly precise three-dimensional surface image capturing of the face to assist in patient documentation, morphometric analysis, surgical planning, treatment outcome assessment and research application. The electronic data storage and software programme capabilities of the system enhances the quality of clinical documentation and outcome assessment of patients seeking orthodontic treatment as well as those with dentofacial deformities that require corrective surgery.

Better working environment for all



Dental Clinics 2 and 3 underwent a facelift to improve the reception area. The renovations, which were completed in March 2006, aimed to improve the overall aesthetics of the two undergraduate teaching clinics. The Faculty will also be embarking on another phase of its development by renovating the General Practice Unit in June 2006.

Dental Health Month - April 2006

NUS Faculty of Dentistry together with the NUH Dental Services, NTLC, Health Education Hub, and Corporate Communication successfully held the 1st Dental Health Month in April 2006. The event aimed to promote dental health and to create awareness of our dental services. It was launched on 4 April 2006 at the NUH Health Education Hub and saw the involvement of both staff and public in various activities such as:



- Dental Health Poster Displays
- Dental Quiz
- Bright Smile Contest
- Guess the Number of Teeth Contest
- Stalls with Oral B & Philip products on sale
- Free Dental Health Screening

A series of lunch time dental talks, which were also held every Tuesday and Thursday at the Health Education Hub, featured a range of topics covered by A/Ps Jennifer Neo, Stephen Hsu, Kelvin Foong, Clinical A/P Patrick Tseng, Drs Victor Fan, Soh Jen and Wendy Wang.



Date	Name of Speaker	Topic
04 April 2006	A/P Jennifer Neo Chiew Lian	Simple Aesthetic Makeovers
06 April 2006	A/P Stephen Hsu Chin-Ying	Oral Health Care for Infants
11 April 2006	Dr Wendy Wang Chia Wei	Missing Teeth? Loose Dentures? How Dental Implants Can Help You
13 April 2006	Dr Victor Fan Tai Weng	Are you growing a little cancer in your mouth?
18 April 2006	Clin A/P Patrick Tseng	Root Canal Treatment Getting to the Root of the Problem Painlessly
20 April 2006	A/P Kelvin Foong Weng Chiong	Orthodontic Braces Treatment for Children and Adults - How is it different?
25 April 2006	Dr Victor Fan Tai Weng	Facial Attractiveness and Your Jaws - A Presentation on Orthognathic Surgery
27 April 2006	Dr Soh Jen	Improving Facial Aesthetics with Combined Braces and Jaw Surgery

INITIATIVES
global profile

“ Arising from the strategic plans charted for the medium and long term,
the Faculty will embark on **strategic** initiatives for expansion in
advanced dental education and focused high impact research activities. ”

Establishing Contacts Internationally
Asia



University of Malaya

The Faculty had the honour of receiving Dato' Professor Dr Hashim Yaacob, Vice-Chancellor of the University of Malaya on 19 July 2005. Also accompanying him were YBhg Professor Dato' Dr Mohd Amin Jalaludin, Professor Dr Rahimah Abdul Kadir and Mr Anuar Mohamad.



Maranatha Christian University

A delegation of 13 members from the Maranatha Christian University, Bandung, Indonesia visited our Faculty on 6 May 2005.



**Centro Escolar University (Manila)
University of Indonesia**

Two Universities visited the Faculty under the auspices of the Dentsply Asia Visitorship Programme, namely Centro Escolar University, Manila from 14 to 18 November 2005 and University of Indonesia from 16 to 20 January 2006. The delegation from the former included Dr Maria Jona D. Godoy, Dr Pearly P. Lim, Dr Emma Z. Brioso, Dr Edwin C. Huan, Dr Shirley Wong and Dr Maricar Joy Andres. Members from the University of Indonesia delegation included Dr Yosi Kusuma Eriwati, Dr Lindawati Kusdhany, Dr Anggraini Margono and Dr Evi Savitri. The Faculty has hosted 9 delegations since the programme started three years ago.





Dr Nguyen Quoc Trung from Vietnam, was attached to the Department of Restorative Dentistry from 21 February to 10 March 2006 under the Education-Train-the-Trainers (MOE) programme.



Beijing University
Professor Yu Guangyan (Dean, School of Stomatology) and Professor Xu Tianmin (Chair, Orthodontic Department) from the Beijing University visited our Faculty from 1 to 7 March 2006. This is part of Faculty's efforts towards establishing global linkages with China in the area of education and research.

Kyushu University
Professor Kunio Ishikawa, Vice-Dean (International Affairs), Chairman & Professor of the Department of Biomaterials, Faculty of Dental Science, Kyushu University visited Dean A/P Keson Tan on 10 March 2006. Possible research collaborations were discussed.

Europe



University of Groningen
Professor Sibrand Poppema, Dean of the University of Groningen, visited the Faculty on 13 March 2006. Other members of his delegation included Prof Dr Andrew Sandham, Dr Marco Harmsen, Dr Theo van Kooten and Dr Eugenius G.J.M. Arts. The visit aimed to establish strategic research collaboration in the areas of stem cell and tissue regeneration between the University Medical Centre Groningen (UMCG) and Faculty of Dentistry, NUS. A letter of intent was signed.

Moscow State University of Medicine and Dentistry
Dr Ekaterina Fabrikant, Head of Educational Research Unit and also the International Affairs Officer from the Moscow State University of Medicine and Dentistry, visited the Faculty on 24 February 2006. A/P Yeo Jin Fei and Dr Victor Fan engaged in discussion over possible research collaborations between both universities.

Board Memberships in Government Agencies




Prof Chew Chong Lin	Chief Dental Officer, Ministry of Health Registrar, Singapore Dental Council
A/P Ho Kee Hai	Member, Singapore Dental Council
A/P Jennifer Neo Chiew Lian	Member, Singapore Dental Council
A/P Keson Tan Beng Choon	Chairman, Accreditation Committee of the Singapore Dental Council Member, Singapore Dental Council
A/P Yeo Jin Fei	Member, Singapore Dental Council

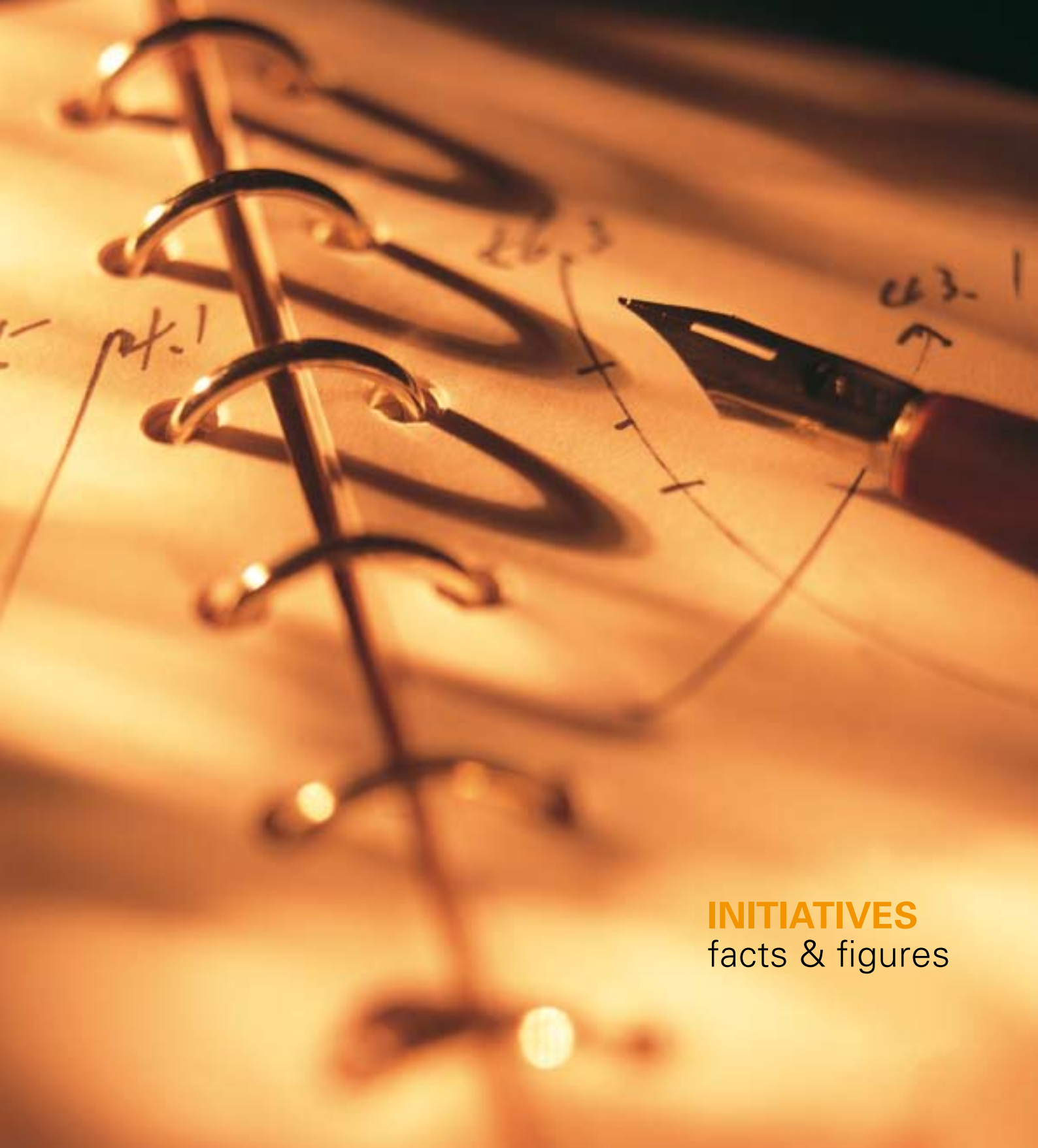
Leadership Positions in International & Regional Organisations

Name	Designation	Organisation
Dr Willy Chang Shian Wei	Treasurer	International Association for Dental Research (IADR), Singapore Section
A/P Kelvin Foong Weng Chiong	Treasurer	International Association for Dental Research (IADR), Southeast Asian Division Council
A/P Stephen Hsu Chin-Ying	President	International Association of Dental Research (IADR), Singapore Section
A/P Keng Siong Beng	President	South East Asia Association for Dental Education (SEAADE)
Dr Anil Kishen	Secretary	International Association of Dental Research (IADR), Singapore Section
	Vice Chairman	Singapore Chapter of the International Society of Optical Engineering (SPIE)
Prof Loh Hong Sai	Immediate Past President	International Society for Lasers in Dentistry
Dr Mohd Azharashid bin Mohd Tahir	Vice President	International Association for Dental Research (IADR), Singapore Section
Dr Betty Mok Yuen Yue	Board of Directors	Pediatric Dentistry Association of Asia
A/P Varawan Sae-Lim,	Chairperson Hon Secretary	Chapter of Dental Surgeons, Academy of Medicine South East Asia Association for Dental Education (SEAADE)
A/P Keson Tan Beng Choon	Immediate-Past President	International Association for Dental Research (IADR,) Southeast Asian Division
Dr Joanne Ngo Uy	Treasurer	International Association for Dental Research (IADR), Singapore Section
	Treasurer	Prosthodontic Society (Singapore)
A/P Yeo Jin Fei	Dental Regional Advisor (Overseas) Regent	Faculty of Dental Surgery, Royal College of Surgeons of Edinburgh Section 24 (Singapore & Indonesia), International College of Dentists



Prominent Visiting Faculty

WHO	FROM	AIMS
<p>Professor John Stamm Dept of Preventive Dentistry Visiting Professor</p> <p>07 November 2005 05 December 2005</p> <p>Preventive Dentistry & Public Health</p> 	<p>Alumni Distinguished Professor</p> <p>The University of North Carolina, School of Dentistry</p>	<ul style="list-style-type: none">• Conducted a Continuing Professional Development lecture• Led discussion with academic staff with regards to curriculum development in US dental schools & the future of dental education• Provided lectures for both periodontology graduate students and the dental profession
<p>Assoc Professor Hien Ngo Dept of Restorative Dentistry Visiting Associate Professor</p> <p>27 December 2005 31 January 2006</p> <p>Dental Materials & Operative Dentistry</p> 	<p>Associate Professor</p> <p>University of Adelaide, Dental School</p>	<ul style="list-style-type: none">• Assisted in the start-up of the Minimal Intervention (MI) project with internal staff in the faculty, which involved the following:<ul style="list-style-type: none">- Hosting a number of training sessions for about 100 full & part-time staff- Collaborate in MI related projects- Set up of a regional MI focus group• Conducted Continuing Professional Development courses to the local dentists• Participated in clinical teaching at undergraduate level• Conducted a couple of seminars for graduate research students
<p>Professor Toshio Deguchi Dept of Preventive Dentistry Visiting Professor</p> <p>27 February 2006 24 March 2006</p> <p>Orthodontics</p> 	<p>Professor</p> <p>Matsumoto Dental University</p>	<ul style="list-style-type: none">• Conducted teaching, research and clinical training for both postgraduates & undergraduates in Orthodontics



INITIATIVES
facts & figures

“ The faculty continues to forge forward with its’ research mission.
External recognition of the quality of research is evident in the research prizes and awards won at the national and international level. ”



Student Enrolment
UNDERGRADUATE

Level	Number of student enrolment
Year 1	34
Year 2	34
Year 3	33
Year 4	35
Total	136

POSTGRADUATE (Clinical Specialties)

Specialisation	Year 1	Year 2	Year 3	Total
MDS (Endodontics)	3	1	0	4
MDS (Oral Maxillofacial Surgery)	3	1	1	6
MDS (Orthodontics)	3	4	3	10
MDS (Periodontics)	3	0	2	5
MDS (Prosthodontics)	1	1	1	3
Total	28			

POSTGRADUATE (Research)

	Full Time	Part Time
MSc	18	1
PhD	11	3
Total	33	

Graduation Statistics

The number of students conferred their respective degrees for completion of study in Academic Year 2005/6 are:

BDS	34
MDS (Oral Maxillofacial Surgery)	1
MDS (Orthodontics)	3
MDS (Periodontology)	2
MDS (Prosthodontics)	1
MSc	5
PhD	0

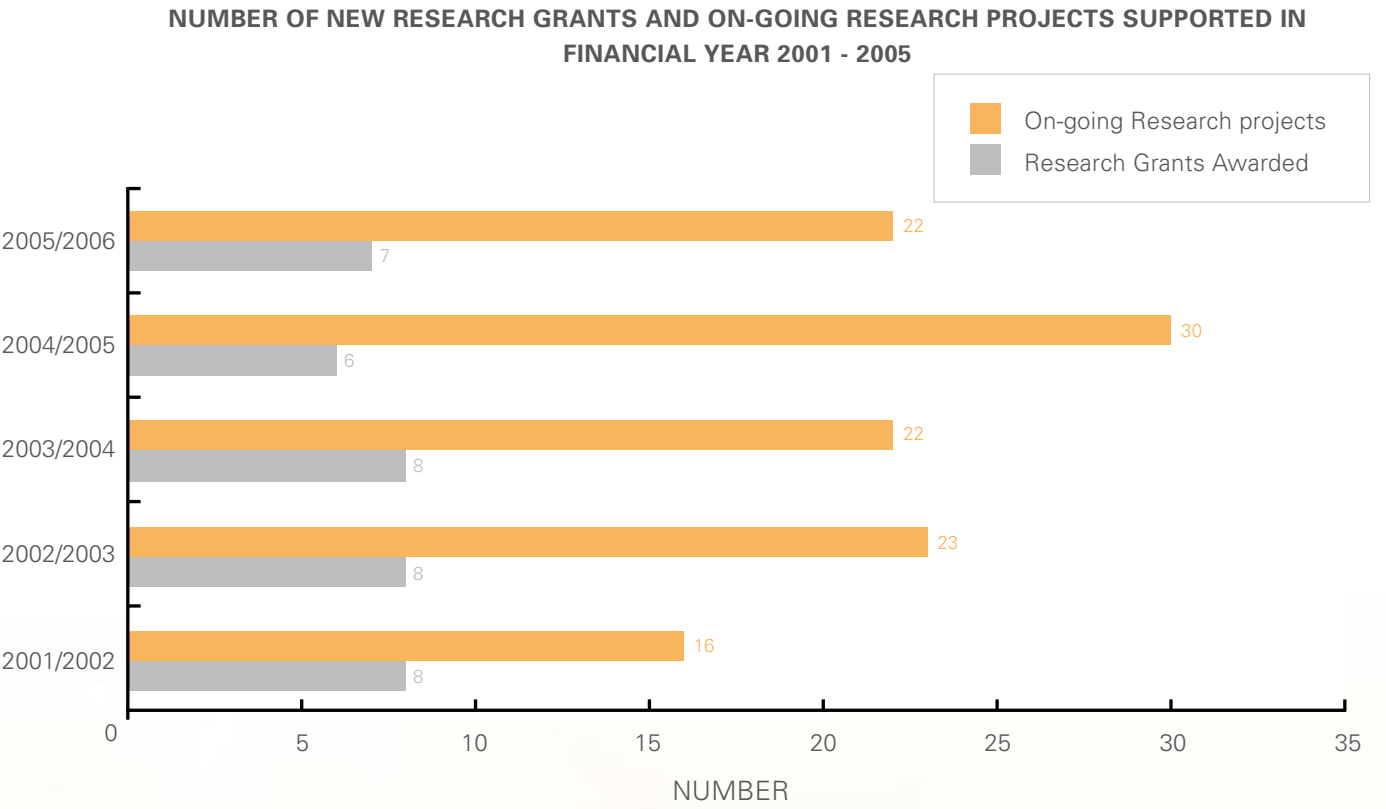
Basic Medical Science Course / Part 1 MDS Examination Statistics

In the Academic Year 2005/6, the Faculty accepted 9 students for the BMS course and 10 candidates sat for the corresponding Part 1 MDS Examination (total from two sittings).

Acad Year	BMS COURSE		PART 1 MDS EXAM	
	Residents	Private	Residents	Private
2002	3	4	3	7
2003	4	3	4	4
2004	4	6	4	4
2005	5	5	4	6



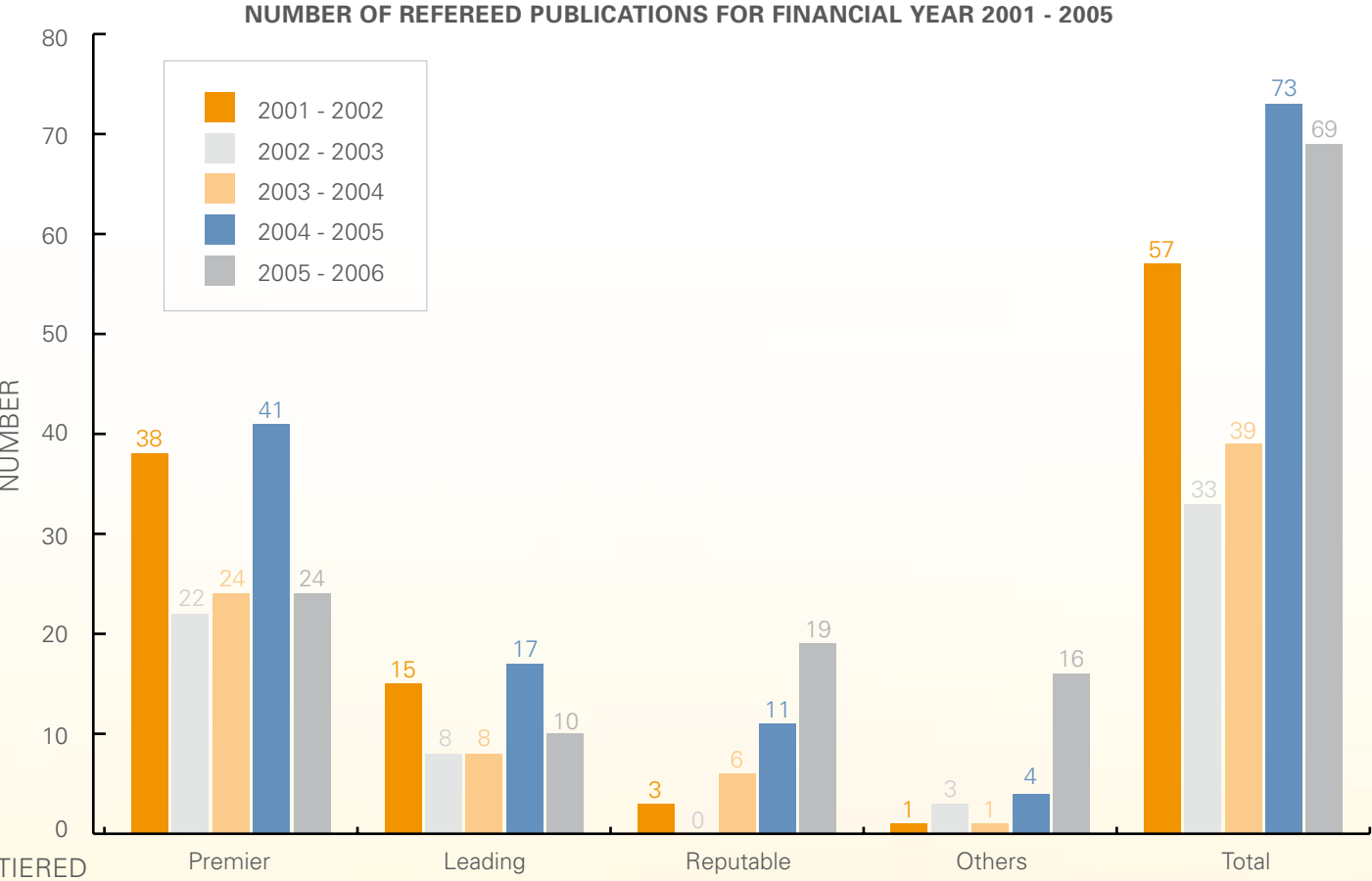
Research Grants Awarded



Editorial Board Memberships

Name	Journal
Prof Chew Chong Lin	Editorial Board, Journal of Dentistry
A/P Kelvin Foong Weng Chiong	Section Editor (Preventive Dentistry), Editorial Board, Singapore Dental Journal
Dr Anil Kishen	Editorial Board, Singapore Dental Journal
A/P Lim Lum Peng	Editorial Board Member, Oral Health & Preventive Dentistry
Prof Loh Hong Sai	Editorial Board, Singapore Dental Journal
Dr Mohd Azharashid bin Mohd Tahir	Associate Editor, Singapore Dental Journal
A/P Jennifer Neo Chiew Lian	Editorial Board, Operative Dentistry
A/P Grace Ong Hui Lian	Editorial Board, European Journal of Dental Education
A/P Varawan Sae-Lim	Editorial Board, Journal of Dental Traumatology Scientific Advisory Panel, Journal of Endodontics
Dr Soh Jen	Editorial Review Board, American Journal of Orthodontics and Dentofacial Orthopedics
A/P Keson Tan Beng Choon	Editorial Board, Journal of Oral Rehabilitation
A/P Adrian Yap U-Jin	Editor-in-Chief, Singapore Dental Journal Editorial Board, Operative Dentistry Editorial Board, American Journal of Dentistry

Faculty Publication Numbers





Facilities and Renovations

The Faculty of Dentistry is located within the National University Hospital, sited at the eastern end of Kent Ridge Campus since 1986. The Faculty occupies a 4-storey block with a total area of 6262 square metres. In Academic Year 2005/6, refurbishments were made to the Dentistry Clinic 2 and 3, the General Practice Unit as well as the conversion of vacated research laboratory space to create new tutorial room space.

Staff profile – Academic

Full Time Faculty (as at March 2006)	
Assistant Professor	6
Associate Professor	11
Professor	1
Professorial Fellow	1
Visiting (>6mths)	5
Senior Lecturer	2
Dental Instructor	1
Part Time Faculty (as at March 2006)	
Adjunct Staff	5
Clinical Faculty Scheme – Restructured Hospitals	31
Part Time Appointments – Private Practitioners	88
Total	151

Staff profile – Administrative, Professional and Non Academic

WORK AREA	DESIGNATION	NO. OF STAFF
Laboratory	Laboratory Officer	12
Dental Clinics	Technical Support Officer	1
	Laboratory Officer	3
	Dental Support Officer	3
	Operational Support Officer	4
IT Support	IT Professionals	4*
	Technical Support Officer	2
	Laboratory Officer	1
Research Laboratories	Laboratory Officer	3
Office Administration	Administrative Officer	4
	Management Support Officer	10
	Operational Support Officer	2
Total		49

* Seconded from Computer Centre

Staff and Student Achievements

Teaching or Service Awards

The following staff were recognised for their achievements in teaching or service:

- **A/P Lim Lum Peng**, Faculty Excellence in Teaching Award 2005/2006.
 - **Dr Joanne Uy**, Faculty Excellence in Teaching Award 2005/2006.
- **Ms Han Tok Lin**, Long Service Medal (National Day Honours 2005) in recognition of 25 years of dedicated service to the University.
 - **A/Prof Kelvin Foong**, NUS Annual Teaching Excellence Awards 2004/2005.

Research Achievements

The following faculty and students (names in bold) were recognised for their achievements in research:

Award	Awarding/ Organising Body	Title	Contributors
Best Paper Award in Cariology & Mineralised Tissues Research	20th International Association for Dental Research (Southeast Asia)	Micro-Raman Spectroscopic Study on Laser-fluoride-enamel Interaction (Oral presentation)	Stephen Hsu, Liu Yuanyuan
Second Prize, SEAADE-Dentsply Student Clinician Programme	SEAADE-Dentsply	Preventive Effects Of ER: YAG Laser on Enamel Demineralisation and Erosion caused by Acidic Beverages (Table clinic)	Stephen Hsu, Wong Li Beng, Low Jiun Sian, Lum Jing Li, Ngauw Njuk Khim, Angela.
Dentsply Best Scientific Poster Award	Singapore Endodontic Society & Malaysian Endodontic Society 2005	Monospecies biofilm model for persistent endodontic infection (Poster)	Anil Kishen, Saji George, and Song Keang Peng
NUS Dental Science Poster Merit Award	2005 Singhealth-National Healthcare Group-NUS Combined Scientific Meeting	Effects of ascorbic acid 2-phosphate on human periodontal ligament fibroblasts under low and high serum conditions in vitro (Poster)	Amy Chou, Varawan Sae-Lim, Zhou Yefang, Dietmar Hutchmacher W, and Lim Tit Meng.
Dental Science Poster Award	2005 Singhealth-National Healthcare Group-NUS Combined Scientific Meeting	Chondrogenesis recapitulated in human embryonic stem cells: effects of growth factors (Poster)	Cao Tong, Toh Wei Seong, Liu Hua, Rufaihah Bte Abdul Jalil, Heng Boon Chin, Ye Chaopeng, Yang Zheng, Lawrence Walter Stanton, and Lee Eng Hin.
Enterprising Agency Award 2005	Prime Minister’s Office	In-Vitro, In Vivo Testing of Bio-scaffold for Bone Re-construction and Implants	Victor Fan, Cao Tong



Research Achievements (continuation)

Award	Awarding/ Organising Body	Title	Contributors
Top Prize & Best Executive Summary, 2005 Start-Up@ Singapore competition	National University of Singapore	Business plan proposal of the product (the BioMers braces) - a translucent orthodontic wire	Teo Chieh Yin, Karen, George Aliphtiras, Fathianathan Mervyn, Renuga Gopal
Honourable Mention, Pacific Specialty Insurance International Business Plan Competition	University of San Francisco	The idea for the product was developed from the research project entitled “Development of a Fiber Reinforced Polymer Orthodontic Bracket and Arch Wire” (Prof Chew Chong Lin was the principal investigator)	
Best Elevator Pitch Award	University of Oxford		
Second Prize, Idea to Product International Competition	University of Texas at Austin, USA		
Outstanding Paper Award	12th International Conference on Biomedical Engineering	Moving Towards the Construction of a Highly Realistic Pre-surgical Facial Model (Paper)	Ng Hsiao Piau, Kelvin Foong, Ong Sim Heng, Goh Poh Sin, Wieslaw Nowinski.
Champions in the Oral & Poster Presentation competition (International Students category) Hashim Yaacob Award and Challenge Trophy	7th Dental Student’s Scientific Conference, University of Malaya	Effect of Occlusal Splints on Masticatory Muscle EMG during Clenching	Loke Wei Qiang, Alvin Lee, Terence Jee, and Bien Lai

Student Scholarships, Awards or Honours

The following students were awarded the respective awards for their excellent academic performance:

Dental Year 1

Mr Leonardo Saigo, Singapore Dental Association President’s Silver Medal (First in the First Professional B.D.S. Examination); Wrigley Company Book Prize (Second Best in Biochemistry) and Dr Tay & Partners Dental Surgeons Gold Medal (Best student in Anatomy).

Mr Ng Jing Hao, Singapore Dental Association President’s Bronze Medal (Second in the First Professional B.D.S. Examination); Faculty of Dentistry Diamond Jubilee Book Prize (Best student in Physiology) and Dept. of Oral & Maxillofacial Surgery Book Prize (Best student in Dental Anatomy & Histology)

Mr Balasubramanian Suraj, NTUC Denticare Gold Medal (Best Student in Biochemistry)

Mr Hu Shijia, University Medal (Silver) (First in Second Prof B.D.S. examination with distinction); Academy of Medicine Gold Medal (Microbiology & Pathology)

Dental Year 2

Ms Tan Mei Na, University Medal (Bronze) (Second in Second Prof B.D.S examination)

Ms Lee Wan Zhen, University Medal (Bronze) (Second in Second Prof B.D.S examination)

Ms Low Li Zhuang Tammy, Dept of Oral & Maxillofacial Surgery Book Prize (Best in Dental Materials)

Dental Year 3

Ms Chay Pui Ling, Edmund Tay Mai Hiong Gold Medal (First in Third Prof B.D.S. examination with distinction), Vel-lasamy Silver Medal (Surgery)

Mr Lih Wei-Song, Singapore Dental As-sociation Medal (Distinction in Medicine)

Dental Year 4

Ms Phang Hui Jing, University Medal (Silver) (First in Final Prof B.D.S. examination); Terrell Silver Medal (Best student in Prosthodontics); Tratman Silver Medal (Most distinguished graduate for the year); SDA Book Prize (Best student in Preventive Dentistry & Dental Public Health)

(Best student in Clinical Dentistry). He also came in Second for the Asia Ceram-X Case Competition, Country Prize & was runner up of the Asia Prize in the Duo category for Malaysia and Singapore at the Dentsply Asia Dental Student Ceram.X Competition.

Ms Leong Jack Min Daylene, Southeast Asia Association for Dental Education (SEAADE) Medal (Best student in Endodontics)

Mr Loke Weiqiang, University Medal (Bronze) (Second in Final Prof B.D.S examination); Dr Loh Fun Chee Medal

Ms Poh Shuxian Sharon, Lee Kuan Yew Gold Medal (Best student throughout the course of study), BDS71 Scholarship

Mr Jee Shizhuan Terence, Q & M Dental Surgery Medal (Best student in Operative Dentistry)

Ms Lai Wen Pui Bien, BDS71 Scholarship

Postgraduate

Dr Pallavi Uppangala, President’s Graduate Fellowship (Semester 1, AY2005/2006), a research scholarship for her PhD study with the Department of Restorative Dentistry.

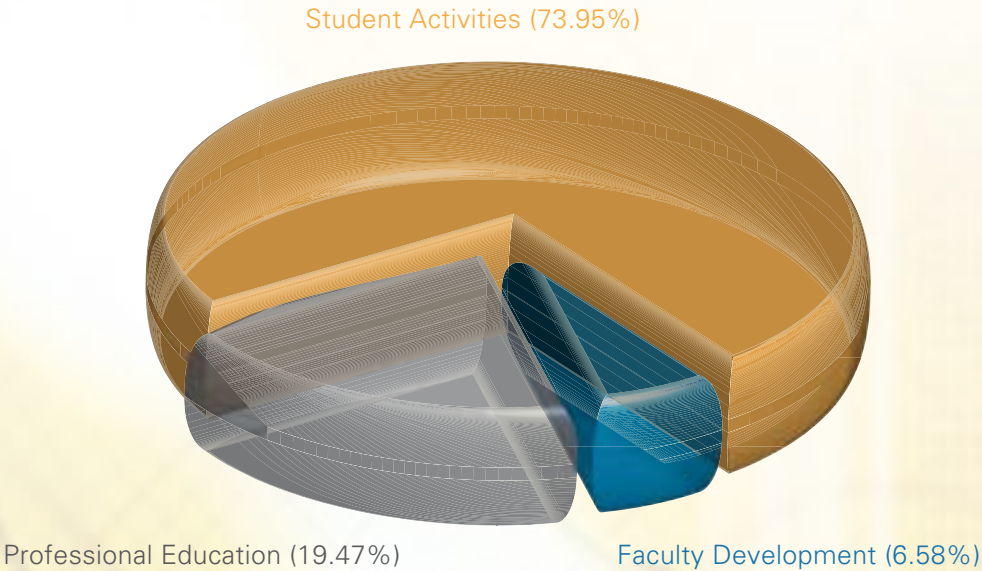
Ms Soh Mui Siang, President’s Graduate Fellowship (Semester 2, AY2005/2006), a research scholarship for her PhD study with the Department of Restorative Dentistry.

Dr Tan Ching Ching, IADR Medal (Best student in Final M.D.S Periodontology examination)



Fund Allocation for Donations & Sponsorships received in Financial Year 2005

The Faculty received a total contribution of \$108,142.24 in donations & sponsorships for Financial Year 2005.



Donations & Sponsorships received in Financial Year 2005

The Faculty of Dentistry gratefully acknowledges the contributions of the following donors and sponsors who made contributions to the Faculty in Financial Year 2005:

Student Development (Donation)

Account

\$1000 - \$4999

Dr Ng Chin Siau

< \$999

Dr Au Eong Kah Chuan

Dr Chan Joon Yee

Dr Chen Chok Mang

Dr Cheng Sim Kim

Dr Chin Chao Wen Christopher

Dr Chan Jeffrey

Dr Chee Yen Seng

Dr Chen Chia Chiaw

Dr Han Kit Kwong

Jacques Dental Surgery

Dr Joanne Lam

Dr Kam Ming Nie

Dr Kuan Chee Keong

Dr Koh Eng Kian

Dr Lee Song Leng

Dr Lee Wi-Hien

Dr Leong Foong Keng

Dr Lo Song Leng

Dr Loo Siew May

Dr Marlar Tun

Miho Dental Clinic

Dr Ng Kah Hock

Dr Ong Beng Lay

Dr Pang Soon Eng

Dr Pang Yew Jhoe

Rainbow Dental Surgery

Shalom Dental Group

Smile Dental Group

Dr Soh Hung Cheow

Dr Soo Ying Chung

Dr Tai Han Min

Dr Tan Gek Neo Vivienne

Dr Tan Boon Eng

Dr Tan Jimmy

Dr Tay Lai Hock Alhponsus

TP Dental Surgeons Pte Ltd

Dr Woo Fung Thin

Dr Yam Kok Weng

Dr Yeoh Cheng Ee Fredrick

Dr Yong Shee Keong Leslie

Student Bursaries

\$1000 - \$4999

Anonymous (2)

Dr Henry Ho Kim Lung

Q & M Dental Surgery

1st Faculty of Dentistry Symposium

\$1000 - \$4999

3M Technologies Pte Ltd

Dentsply Asia

GC Asia Pte Ltd

Kavo Dental Supply

Shofu Inc

2nd Singapore-China OMS Symposium

< \$999

Bluestone Corporation Pte Ltd

HuMedical (S) Pte Ltd

RCS Edinburgh Quincentennial Celebrations (as part of FOD Development Fund)

< \$999

Corlison Pte Ltd

Eastland Dental Supplies Pte Ltd

Elsevier (S) Pte Ltd

HuMedical (S) Pte Ltd

Kavo Dental Supply

MBD Marketing Pte Ltd

MLJ Dental Trading Pte Ltd

SA Dental Supply Pte Ltd

Standard Dental Co Pte Ltd

Trident Pharm Pte Ltd

FOD Development Fund

≥ \$5000

Lee Foundation, Singapore

Morita Medical Engineering Singapore

Pte Ltd

New Academic Medals

≥ \$30,000

Prosthodontic Society Singapore

The Society of Endodontists, Singapore

Student Exchange Programme

≥ \$5000

Office of Alumni Relations, NUS

\$1000 - \$4999

Dentsply Asia

Kavo Dental Asia Pacific

< \$999

GC Asia Pte Ltd

Royal Australasian College of Dental

Surgeons

Shofu Inc

Lau Kieng Hiong Memorial Fund

< \$999

Dr Pang Soon Ngoh

