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www.dental.usm.my
Happy New Year 2020! I wish everyone a happy and fruitful year ahead.

I would like to invite all of you as a team to contribute to its greatness.

Research is a lifeline of USM. USM is one of the research universities in Malaysia, and we would like to stay as it is. Thus, it is the responsibility for all of us, regardless of who we are. Every single impact is essential to make the university’s agenda a success.

Besides research, education, new money generation initiatives, and engagement with the industry as well as the community are also part and parcel of impact to the university. Year 2020 begins with harder challenges to retain our RU position thus we should stand shoulder to shoulder to move forward.

Let’s together make USM great.

Assoc. Prof. Dr. Mohd Fadhli Khamis
Dean

I would like to wish everybody, “Happy New Year 2020”. I present the 5th edition of Bulletin GIGI; a proof of dedication showed by the editorial board in making this project a successful.

Looking back at last year’s activities, we were introduced with many new USM agendas. One of the research agendas was the 18 initiatives. Personally, for me, the efforts are a strategic action taken by the higher management of USM. At our own courtyard, we received a new dean and a new deputy dean of academic, but in actuality not new to the FPSC’s management today.

Later, we received a new vice-chancellor before the end of last year. We look forward to his new ideas for USM.

“Taking a new step, uttering a new word, is what people fear most.”

Fyodor Dostoyevsky

Assoc. Prof. Dr. Azlina Ahmad
Editor-in-Chief
Osman Mustafa
Our Retiring Dental Technologist

Mr. Osman Mustafa is the first Dental Technologist and a pioneering staff at the Dental Laboratory, School of Dental Sciences, Universiti Sains Malaysia. He began serving at USM Hospital on 1.6.1994 and will retire on 1.2.2020.

His career as a dental technologist began with the management, teaching and preparation of teaching materials and services at the Kota Bharu General Hospital (now known as the Zainab II Women’s Hospital) and Dental Clinic, Jalan Mahmood Kota Bharu.

During with the Recovery Unit, he was given much guidance by Mr. Ahmad Zaidan, Coordinator of the Recovery Unit on the administration and purchase process. After two years, he gained new experience and knowledge at ENT and Tissue Bank in 1997 and was subsequently placed in PPSG in 1998 to date. Based on his knowledge and experience and skills, he was promoted to Dental Technologist from U8 to U7 on 1.7.2002. He furthered his career by attending courses and workshops both internally, nationally, and even overseas to enhance his skills in dental technology.

Work experiences:
3. Dental Technology, School of Dentistry (PPSG) - 1998 - 2019

Achievements:
1. Excellent Service Award of 2000
2. Represented Malaysia and won the Gold Award at the "International Convention on Quality Concept Circles (ICQCC) 2010" in Hyderabad, India from October 12 - 15, 2010.

Experience & Skills:
1. Experienced in the manufacture of dental cobalt chrome plate.
2. Experienced in ceramics such as crowns and bridges and the manufacture of prostheses thermoforming materials.
3. Experienced and knowledgeable in preparing specifications for tender and quotation of dental equipment.
4. Teaching and supervision dental students.
5. Supervision of hand tools and dental materials.
6. Supervision of dental laboratory staff.
It is my great pleasure to share our overseas experiences with all my colleagues. Around mid-April 2019, our team of Professor Dr Adam Husein, Dr Azirrawani Ariffin and me, Dr Yanti Johari went to Kerala, India in the name of collaboration effort for dental implant workshop between USM and Educare Dental Institute located in Malappuram, Kerala, India. It was an interactive hands-on workshop targeting new general dental practitioners to experience implant treatment as part of managing missing teeth.

I made another trip in October 2019 with Dr Nafij Jamayet to Dhaka, Bangladesh as speakers in the Scientific Seminar on Prosthodontics at Dhaka Dental College as well as Bangladesh Federation of Dental Science Conference. We had the opportunity to share our prosthodontics works including maxillofacial prosthetic, both clinically and research-wise, as well as introducing Universiti Sains Malaysia to this part of the world. This is in line with the university’s theme “Bringing USM to the world and the world to USM”.

The academia traveling is a chance to experience new cultures, meet new bunch of people, share multitude of ideas, and open yourself to a certain degree of new challenges. Those moment in Kerala and Dhaka reminds me of one of the Prof Dato’ Dr Asma’s highlights from her keynote presentation on serving the bottom billion who makes up more than two-thirds of the world’s population. The process of preparing, executing, and moderating the workshop and seminar as a team is a valued shared experience which create paths to clinical and research opportunities between both parties. It is never a one man show. On behalf of the implant prosthodontics team, I would like to extend our gratefulness to our colleagues in PPSG implant team (Prof Dr Shaifulizan, AP Dr Ramizu Shaari, AP Dr Akram Hassan and Dr Abdullah Polchi) for their contribution and great assistance in the preparation of the workshop. Also, a bouquet of appreciation to Dr Nafij Jamayet who continually placed Universiti Sains Malaysia first at heart during his inspiring talk in Bangladesh.

“The cup of life is in our hand. It is up to us how we fill it. Let us fill the cup with thankfulness, kindness, forgiveness, and love for others in the making of a better world”.

Dr Yanti Binti Johari
BDSc (Perth), Grad Dip in Clin Dent (Adelaide), D Clin Dent (Prosthodontics) (Adelaide), FRACDS
Dental Lecturer and Prosthodontist
School of Dental Sciences,
Universiti Sains Malaysia
Maxillofacial Prosthetic Service
@PPSG, USM

After graduating from Faculty of Dentistry, Mahidol University, I joined Universiti Sains Malaysia in November 2013 as a Dental Lecturer and Consultant Maxillofacial Prosthodontist. I was then handed the responsibility of establishing the Maxillofacial Prosthetic Service (MFP Service) within the Prosthodontic Unit and have been entrusted to lead the development of the MFP Service since then. Some noteworthy developments in the last few years include but are not limited to training local and international staff and carrying out extensive and elaborate research to advance the maxillofacial prosthetic sciences as well as clinical service to patients with maxillofacial defects such as eye, nose, ear, mandible, and maxilla. More than 300 patients have been rehabilitated by eye, nasal, ear, and obturator prostheses from this service.

We developed the maxillofacial prosthetic training program for graduate clinicians as well as dental technicians. We trained our clinical team in our then newly-established ocular, facial, and obturator prosthesis clinics. We had approximately 30 dental surgeons from 10 different nationalities including Australia, Finland, Egypt, Indonesia, UAE, India, and Kenya, doing short-term training at different points in time.

Our research development team successfully proposed and are carrying out multiple research in the field of silicone material sciences, rapid prototyping, and CAD-CAM workflow. For this, we have been awarded two consecutive short-term grants to carry out the research. Currently, approximately 10 postgraduate students are enrolled in research studies in maxillofacial prosthesis.

With the continued support from USM as well as everyone involved in the development project, the future goal of MFP Service is to introduce an independent clinical diploma as well as integrate maxillofacial prosthodontics into the prosthodontic clinical specialty degrees as a sub-specialty. This should encourage development of trained local prosthodontists who will be adept at undertaking cases of maxillofacial prosthetic rehabilitation and better serve the population on both national and international grounds.
Assoc. Prof. Dr. Noor Hayati Abdul Razak is one of the volunteers from USM heading the specialist treatment of CLP surgery to the people of Indonesia with cleft lip and palate. Why was Indonesia selected? It is our sister country with similar culture and language compared to other countries in the region (Melayu serumpun).

This charity project was started in 2004 as a collaboration between Dunia Melayu Dunia Islam (DMDI) and Majlis Gabungan Belia Melaka (MGBM) with USM. Besides harnessing the spirit of volunteerism in USM staff in helping the bottom billion group of population, this project allows sharing of experience between specialists of the two countries to enhance knowledge transfer and experience especially in the area of orofacial cleft.

The main hurdle of this project is budget limitation. Recruiting patients from the scattered islands of Indonesia in dire need of treatment was indeed a tough endeavor, taking into consideration cross-border issues. Fortunately, all equipment and materials for operation were provided by Hospital USM. Travelling and accommodation expenses were borne by the team members themselves. Starting from 2014 until present, Persatuan Sains Pergigian (Dental Students Association) has raised funds annually through the ‘Run for Cleft’ program.

This self-sponsored social program demanded high levels of commitment and sacrifice on the part of team members to ensure sustainability of the program, besides contribution from the university. Thankfully, the Industry and Community Network Division (BJIM) of the university is very supportive in providing financial support for the program. For the past years, contribution from BJIM has enabled the program to be planned more efficiently and became less stressful for organizing members. The financial aid has helped PPSG to reach the bottom billion who are less fortunate and have no accessibility and affordability to health care. It is with great hope that this program can be continued and even extended to a wider area to benefit those in need.

Although the organization and management of such a program has been very challenging, it has not dampened the spirits of our team members. We look forward to more constructive ideas, encouraging involvement of other NGOs as well as contributions in any possible form from the industrial or business sector to enable a sound and intelligent partnership for the benefit of mankind.
My PhD Journey

by Dr. Johari Yap Abdullah

I started my PhD journey on 2 September 2015. Becoming a PhD student while active with several non-governmental organisations (NGOs) was not easy. With the number of NGOs that I joined, people always asked if I even have time for my PhD study. Often, I had to sacrifice my sleeping hours.

Along the journey, when I faced challenges, I asked myself: Why am I doing PhD? Why should I embark in this journey of constant trials? I am sure all PhD students have asked this question at some stage of their journey. My answer is very simple. My research benefitted patients with craniofacial defect. I was in the operation theatre to witness and assist neurosurgeons and oral-maxillofacial surgeons in managing patients using the 3D models and craniofacial prostheses which I have designed. I am happy and grateful that I can share my expertise and the results of my work with others.

PhD is the time when you learn so much about yourself, the ways you arrange your time, how you prefer to work, and what motivates you. The key to success in PhD is DISCIPLINE! No doubt, my 5 years journey in the Royal Military College from 1988 to 1992 has taught me so much about discipline and time management.

There must be balance in everything we do. In Chinese philosophy, it is known as yin and yang, which means, work hard and at the same time, be compassionate to others. Therefore, during weekends and holidays, I go out to help and assist the underprivileged people. I also organised programs to assist the new Muslim reverts.

I believe in Allah’s miracle. If we ease other peoples’ problems, Allah will ease ours as well. After 3 years and 1 month, I submitted my thesis for examination. Alhamdulillah, 5 months later, on 10 March 2019, I passed my viva voce with Scale 1 (without correction). Allah had definitely eased my PhD journey. To add to the joy, I was awarded the Outstanding Achievement Award by School of Dental Sciences, USM at the Majlis Persada Kencana 2019 on 17 October 2019. This award was in recognition to my overall performance in academic as well as non-academic area.

To those who want to achieve something significant, or you wish to challenge yourself and push yourself to a new height, then a PhD study is suitable for you. Whether you believe it or not, you will become an expert in your area. All the best to other PhD students! May Allah ease you. If you feel depressed and trapped, as if there was no light at the end of the tunnel, just remember, we are where we are for a reason!
3D RECONSTRUCTION & PRINTING IN MAXILLOFACIAL SURGERY

BACKGROUND
Professor Dr Zainul Ahmad Rajion, born on 18 April 1962 in Kota Bharu, Kelantan, was the youngest of seven siblings of Rajion Haji Sulaiman and Esah Ahmad. Rajion was a government officer and Esah was a housewife. He is married to Rohana Mohammed and blessed with six children: Nurul Athirah, Mohammad Mustaqeem, Mohammad Hanif, Nur Alia Mardhiah, Mohammad Firdaus, and Luqman Hakim Lubis.

Prof Zainul was raised in Kota Bharu and went to Sekolah Rendah Sultan Ismail 1 and then to Sultan Ismail College. He was awarded MARA scholarship to study at the de’ Montmorency College of Dentistry, Lahore, Pakistan for Bachelor of Dental Surgery, which he obtained in 1989. Upon returning home, he was posted at Hospital Selama, Larut Matang, Perak for 4 years. He was then assigned to the Maxillofacial Oral Surgery Clinic, Hospital Kota Bharu and later promoted to Senior Dentist at Hospital Tanah Merah. Prof Zainul has vast experience in treating oral and facial injuries and forensic cases. He is also active in providing health services in Kelantan.

JOURNEY WITH USM
In 1999, Prof Zainul joined USM as a trainee lecturer. Six months later, he secured a scholarship to further his studies at the University of Adelaide, Australia. In 2004, he returned to USM and was actively involved in the development of PSSG’s curriculum. His research interests include 3D craniofacial reconstruction using CAD/CAM software based on photogrammetric, radiological and stereological data. He has held many key positions at PPSG including Deputy Dean of Research and Innovation (2013-2015), Postgraduate Coordinator (2008-2011), and chairperson for USM Craniofacial Medical Imaging Cluster. He has also served as a lecturer at College of Dentistry, King Saud bin Abdulaziz University for Health Sciences, Riyadh, Saudi Arabia (2015-2018).
RECOGNITION & AWARDS
Prof Zainul attended the Certificate for Entrepreneurship Learning course at the University of Cambridge, UK in 2009. His selection by Malaysian Biotech Corporation was a great honor for USM. As a successful researcher, he has been awarded competitive research grants at local and international levels such as the Australian Dental Research Foundation Grant, FELDA Foundation, Fundamental Top-Down Grant, Ministry of Higher Education, IRPA Top-down, E-Science MOSTE, CRADLE Investment Fund, and Research University Team (RUT) grant.

Prof Zainul has also gained international recognition including: The Best Paper in the Mimics Innovation Awards - 3D Landmark Analysis for Development of Malaysian Craniofacial Database at the Annual Conference “Computer Guided Implantology & 3D Medical Modeling” in Leuven, Belgium 2005; Silver award for the invention of the Photogrammetry Imaging System-MyCranio at International Invention, Innovation & Technology Exhibition Malaysia (ITE 2008); and Bronze for MyCranio and MyCast at the BioMalaysia Bioinnovation Award 2008. One of the local products from the palm oil called “MyDental Bib” won silver prize at the International Exposition of Research and Invention of Institutions of Higher Learning (PECIPTA 2009).

For his sabbatical (2010-2011), Prof Zainul ventured into the field of oral maxillofacial radiological imaging in clinical and research settings under the supervision of several renowned professors: Prof Rindindella Jacob at the Catholic University Leuven, Belgium; Prof Joules Poukens at Maastricht University, Netherlands; Prof Mary Jadman Kupper at Radboud University, Netherlands; and Prof Melvin Kelvin at National University of Singapore.

Prof Zainul is also chief editor and founder of Archives of Orofacial Sciences, the official journal of the School of Dental Sciences, USM from 2008 until 2015. This journal has been indexed into several databases such as Google Scholar, MyJournal, My CITE, and received the recognition of SCOPUS in 2018. This is the pride of PP Serg and USM in general as it recognizes USM’s global reputation. Prof Zainul is also an active member of the International Association of Dental Maxillofacial Radiology, Asia Pacific Craniofacial Association, and Asian Oral Maxillofacial Radiology. He is the first editor-in-chief of CTIG-Newsletter, MyCT Computed Tomography Interest Group, whose members include researchers and scientists from different backgrounds who used computed tomography as a research method in industry and medicine.

RESEARCH
Patients with craniofacial abnormalities may have other disabilities such as speech, vision, eating, breathing, and even brain dysfunction, which often cause them to lead a life of isolation and rejection. In view of these devastating effects, there is an urgent need to improvise our cranio-maxillofacial treatment with new techniques by expanding our research and services. This has led Prof Zainul to seek RUT research grant, which has seen great outcomes from different disciplinary of researchers including mathematician, computer scientist, material scientist, material engineer, manufacturer engineer, prostho dentist, maxillofacial surgeon, and neurosurgeon. This multidisciplinary research approach has benefited many patients at Hospital USM. It started from mathematical modelling into 3D model and then manufactured via 3D printing, finally insertion and implantation into patients. Innovations on biomaterials suitable to be used as printable alloplastic materials were also explored, whereby the use of existing PMMA in neurosurgery was improved with hybrid cranioplasty surgery.

Several PhD and MSc students have graduated from this research grant and contributed to many publications in citation-indexed journals. Prof Zainul and his team won Gold Medal at Research Innovation Symposium and Exposition 2015 (RISE 2015), and Silver medal at ITEX 2018 and ITEX 2019. He hopes this could contribute towards building a centre for excellence in cranio-maxillofacial imaging and prostheses in PP Serg and BIOM3D laboratory (Biomaterials and 3D visualisation).
AWARDS & ACHIEVEMENTS

WAVE OF SUCCESSES 2019

INTERNATIONAL RESEARCH AWARDS AND RECOGNITION 2019

- Distinguished Woman in Health and Medical Sciences. 2 Mar 2019. 
  Recipient: AP Dr Wan Zaripah Wan Bakar. 
  Confering Body: Venus International Foundation.

  Project Title: Oral HPV-16 Lamp Kit. 
  Members: Dr Suhaeri Mohamad, Dr Nurhayu Ab Rahman, AP Dr Siti Suriyaiy Md. Noor, Nurul Izaz Hamzan.

- Gold Medal, 30th International Innovation, Innovation & Technology Exhibition, Malaysia (ITEX’19), 2-4 May 2019. 
  Project Title: KAIDSS. 
  Members: Dr Muhammed Hafiz Hanaif, Hasnaya Zuria Mohamed Hatta, Harwazi Mahmood, Sarina Mat Derus, Hamidah Yusof, Fazila Azahar, Rosiyantee Khamiruddin, Zulkifli Jusoh, Mohd Zamani Mastat, Razak Daud, Che Nor Haslindar Ishak, Dr Al-Hafiz Ibrahim, Dr Nur Karyatee Kassim, Dr Husaimi Mustapha.

- Silver Medal, 30th International Innovation, Innovation & Technology Exhibition, Malaysia (ITEX’19), 2-4 May 2019. 
  Project Title: Patient-Specific Implant Hybrid Cranioplasty. 
  Members: AP Dr Dasmawati Mohamad, Prof Dr Zainul Ahmad Rajion, Prof Dr Zamzuri Idris, Dr Low Peh Hwee, Abdul Manaf Abdullah, Johari Yap Abdullah, Suzana Yahya.

- Silver Medal, 30th International Innovation, Innovation & Technology Exhibition, Malaysia (ITEX’19), 2-4 May 2019. 
  Project Title: Mesh. 
  Members: Dr Tuan Nadrah Naim T Ismail @ T Manan, AP Dr Azrina Ahmad, Mohamad Ezany Yusof, Haswati @ Nurhayati Abdullah.


NATIONAL RESEARCH AWARDS AND RECOGNITION 2019

  Project Title: GISDent (GIC-NanoZ-Story-Hybrid Material for Dental Application). 
  Members: AP Dr Wan Zaripah Wan Bakar, Prof Ismail Ab Rahman, Nor Ainon Maziah Ghazali, Dr Arbaz Sahjad, AP Dr Dasmawati Mohamad, AP Dr Thrimalu Ponnuraj Kanman.

  Recipient: AP Dr Dasmawati Mohamad.

  Project Title: The Wastage of Dental Wax in the Dental Technology Laboratory. 

  Winner: Muhammad Khairuzafiz bin Mohd Jamil.

  Recipient: Galvin Sim Sian Ling.

- Champion in the E-Poster Competition (Research Category), 4th Malaysia International Dental Show 2019, MAHSA University, 19-21 Apr 2019. 
  Recipient: Galvin Sim Sian Ling.

  Recipient: Galvin Sim Sian Ling.

- 3rd Prize in Oral Presentation, 11th National Dental Students’ Scientific Conference 2019, MAHSA University, 27 Apr 2019. 
  Recipient: Galvin Sim Sian Ling.

- 1st Place in Oral Presentation, 18th Annual Scientific Meeting & 20th Annual General Meeting, 30 Mar 2019. 
  Recipient: Mohd Isquaili Karobari.

OTHER AWARDS in 2019

  Recipient: AP Dr Norhasyati Luddin.

  Recipient: Abdul Manaf Abdullah.

- Prestigious External Award (Best Oral Presentation Award), Majlis Persada Kencana, 17 Oct 2019. 
  Recipient: Abdul Manaf Abdullah.

- School of Dental Sciences – Outstanding Achievement Award, Majlis Persada Kencana, 17 Oct 2019. 
  Recipient: Johari Abdullah.

- School of Dental Sciences – Publication Achievement Award, Majlis Persada Kencana, 17 Oct 2019. 
  Recipient: Sanjida Haque.
## Active Research Grants in 2019

<table>
<thead>
<tr>
<th>TYPE OF GRANT</th>
<th>NUMBER</th>
<th>AMOUNT (RM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short-Term</td>
<td>10</td>
<td>286,879.54</td>
</tr>
<tr>
<td>RUI</td>
<td>17</td>
<td>1,520,820.89</td>
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<tr>
<td>FRGS</td>
<td>3</td>
<td>254,984.00</td>
</tr>
<tr>
<td>Awaiting for official offer</td>
<td>1</td>
<td>149,965.00</td>
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<tr>
<td>ScienceFund</td>
<td>1</td>
<td>179,045.00</td>
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<tr>
<td>Bridging</td>
<td>7</td>
<td>80,450.00</td>
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<tr>
<td>Bridging Khas</td>
<td>2</td>
<td>50,000.00</td>
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<tr>
<td>Bridging Incentive</td>
<td>8</td>
<td>38,349.00</td>
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<tr>
<td>Dana Inovasi Awal</td>
<td>1</td>
<td>24,000.00</td>
</tr>
<tr>
<td>Incentive GOT (Via IPS)</td>
<td>4</td>
<td>12,000.00</td>
</tr>
<tr>
<td>Geran Agensi Luar (Hannan Medispa Sdn Bhd)</td>
<td>1</td>
<td>15,000.00</td>
</tr>
<tr>
<td>Status: Awaiting</td>
<td></td>
<td>(for 2 years)</td>
</tr>
</tbody>
</table>

## 2019 Publication Report

**January - December**

- **JCR Impact Factor (Q1-Q2):** 19
- **Web of Science (WoS):** 20
- **Scopus:** 73
- **Non-Citation Indexed Journals:** 17
- **Books:** 07
## Research-Related Activities Conducted by the Research & Innovation Unit in 2019

<table>
<thead>
<tr>
<th>No.</th>
<th>Title of Seminar or Workshop</th>
<th>Date</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>How to Publish with Limited Grants</td>
<td>14 Jan</td>
<td>Seminar Room, Trauma Building</td>
</tr>
<tr>
<td>2.</td>
<td>An Interactive Session with Successful Applicants of MTSF Research Grant</td>
<td>14 Feb</td>
<td>Conference Room</td>
</tr>
<tr>
<td>3.</td>
<td>An Interactive Session with the Bursary Department</td>
<td>14 Mar</td>
<td>Conference Room</td>
</tr>
<tr>
<td>4.</td>
<td>Workshop on applying IP application for Training &amp; Teaching Modules</td>
<td>18 Apr</td>
<td>Conference Room</td>
</tr>
<tr>
<td>5.</td>
<td>Seminar on Human or Animal Ethics Approval for Research</td>
<td>13 Jun</td>
<td>Conference Room</td>
</tr>
<tr>
<td>6.</td>
<td>Seminar on the Basics of Scientific Writing</td>
<td>27 Jun</td>
<td>Conference Room</td>
</tr>
<tr>
<td>8.</td>
<td>Townhall KPI Performance Progress</td>
<td></td>
<td>Conference Room</td>
</tr>
<tr>
<td>9.</td>
<td>Seminar on Boosting Publication of Scientific Articles</td>
<td>1 Aug</td>
<td>Auditorium</td>
</tr>
<tr>
<td>10.</td>
<td>Seminar on Research Book Publication</td>
<td>28 Aug</td>
<td>Conference Room</td>
</tr>
<tr>
<td>11.</td>
<td>An Interactive Session with Prof Zainul, AP Dr Das and Dr Nur Karyatee on tips to successful application of research funding from external agencies (FRGS &amp; DIA)</td>
<td>12 Sep</td>
<td>Conference Room</td>
</tr>
<tr>
<td>12.</td>
<td>Seminar on Ethical Approval Application for School of Dental Sciences</td>
<td>17 Oct</td>
<td>Seminar Room</td>
</tr>
<tr>
<td>13.</td>
<td>Seminar on Publication of Educational Book and Application for Copyright &amp; Licensing</td>
<td>1 Aug</td>
<td>Conference Room</td>
</tr>
<tr>
<td>14.</td>
<td>Seminar on Writing Successful Grant Proposal</td>
<td>31 Oct</td>
<td>Conference Room</td>
</tr>
<tr>
<td>15.</td>
<td>Frivoducation 1</td>
<td>21 Mar</td>
<td>Alumni Lounge</td>
</tr>
<tr>
<td>16.</td>
<td>Frivoducation 2 &amp; 3</td>
<td>4 &amp; 18 Apr</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>Frivoducation 4</td>
<td>27 June</td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>Frivoducation 5</td>
<td>10 Oct</td>
<td></td>
</tr>
</tbody>
</table>

## Research-Related Seminars and Workshops Conducted by Special Business Unit (SBU) in 2019

<table>
<thead>
<tr>
<th>No.</th>
<th>Title of Seminar or Workshop</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Intensive Biostatistics Workshop Series</td>
<td>24 &amp; 31 Jan</td>
</tr>
<tr>
<td>2.</td>
<td>Biostatistics Workshop Series From Newbie To Advance</td>
<td>28 Feb - 18 Apr</td>
</tr>
<tr>
<td>3.</td>
<td>Workshop for Professional Qualifying Examination</td>
<td>13-14 Mar</td>
</tr>
<tr>
<td>4.</td>
<td>3rd Postgraduate Research Day 2019</td>
<td>28-Apr</td>
</tr>
<tr>
<td>5.</td>
<td>The Surgical &amp; Prosthetic Perspective of Biocare</td>
<td>28 Mar</td>
</tr>
<tr>
<td>6.</td>
<td>PRISM</td>
<td>11 Apr</td>
</tr>
<tr>
<td>7.</td>
<td>Copy Dentures</td>
<td>24-25 Apr</td>
</tr>
<tr>
<td>8.</td>
<td>Diode Laser</td>
<td>29 Apr</td>
</tr>
<tr>
<td>9.</td>
<td>Biomaterial Research Day</td>
<td>29 Apr</td>
</tr>
<tr>
<td>10.</td>
<td>Advance Statistics</td>
<td>19-20 Jun</td>
</tr>
<tr>
<td>11.</td>
<td>MPA Brush Up Your Prosthio</td>
<td>21 Jun</td>
</tr>
<tr>
<td>12.</td>
<td>PQE2</td>
<td>19-20 Jun</td>
</tr>
<tr>
<td>13.</td>
<td>Personal Tuition : Biostatistics</td>
<td>14 &amp; 17 Jul</td>
</tr>
<tr>
<td>14.</td>
<td>Paediatric Dentist Day</td>
<td>4 Aug</td>
</tr>
<tr>
<td>15.</td>
<td>Crown &amp; Bridge</td>
<td>20-22 Aug</td>
</tr>
<tr>
<td>16.</td>
<td>Hands-on Biostatistics Workshop: Regression</td>
<td>19 Sep</td>
</tr>
<tr>
<td>17.</td>
<td>Evening Study Club</td>
<td>5 Oct</td>
</tr>
</tbody>
</table>
3rd Postgraduate Research Day 2019
28th April 2019
Excelling in Science: Challenges in 50 Jubilant Years

16th Students Scientific Conference 2019
21st February 2019
Leading Research Culture for Excellence in Dentistry
Bring it on!

Dr. Galvin Lim Sim Siang Lin

Time flies. It feels like yesterday when I registered as a dental student at PPSG in 2014. My 5 years undergraduate study was pretty challenging. I still remember how I almost quit dentistry towards the end of the second year as I had no vision, no direction, and no idea as to why I chose dentistry. But things changed after that.

The moment I was exposed to elective study during my first semester in the third year, I started to develop a passion for research. I considered myself to be very lucky because I was blessed with great supervisors, family, and friends who gave me countless support and motivation.

My elective project was related to endodontics and I was supervised by Dr. Nik Rozainah Nik Abdul Ghani. It signified my new journey in dentistry; I was trained to perform root canal treatments with new rotary instruments and advanced biomaterials. I was so overwhelmed with my research work, and soon, became an ‘endo lover’. With my supervisors, we started to design new research studies. I did another two research works during my final year of study. It was not easy as I had to stay back after my clinics until midnight, and during holidays. Despite my busy final year schedule, I managed to finish all my research projects before my final exams. Thank God!

Professor Dr. Adam Husein, former dean of PPSG, is another person who has made a great impact on my research journey. It was still fresh in my mind when I was chosen as the top 10 finalists for the 45th Asia Pacific Dental Students Association Research Competition in 2018. Prof. Adam said, “Don’t worry Galvin, the school will pay for you. Do you have enough pocket money?” Although it was just a simple conversation, it really meant a lot to me. Because of his trust and encouragement, I started to participate in numerous national and international research competitions and won a total of 11 awards.

Apart from my research achievements, I felt grateful as well to be given Distinction Award and Dean’s List Award from PPSG. In September 2019, I was awarded the Young Achiever Student Award during the inauguration and award ceremony of World Dental Conference in Kuala Lumpur.

Now, when I look back, I realized how much I have grown up from nothing to something. It was a journey full of courage, trust, struggle, and happiness. Lastly, to my dear readers, never say “I can’t take it anymore”; but say, “I can, bring it on!” Thank you.
The Entrepreneur Dentist

Dr. Erma Shaidatul Akmal Zukulfeli

Erma Shaidatul Akmal Zukulfeli, from Kelantan, graduated in 2009. After three years in the government service, she resigned to focus on her newborn child. In 2013, for her love in dentistry, she established her own private clinic, Dr Emma Saz Dental Clinic (KGDES) at Tanjung Chat. She has expanded her business with a second branch at Wakaf Che Yeh. Currently, she employs eight dental assistants, one permanent locum dentist, seven part-time locum dentists, and two visiting dental specialists.

Erma was fascinated with art from an early age, often winning drawing and colouring contests. Her interest in the makeup and fashion developed as she grew older. Whenever possible, she attended makeup classes, soon she became a freelance bridal makeup artist in Kota Bharu.

In her own words, “I find that aesthetics in dentistry requires high level of ideas, abilities, skills, and creativity to create the perfect tooth for a captivating smile. I need to be able to choose the right mixture of colors, smartly re-create the tooth to look as good as the original. Honestly, I believe everyone can succeed if they do what they love. Personally, I really like the beauty of the teeth and smile of patients who come for treatment. I prefer to do veneering because it helps to bring a good smile to the patient. This treatment is considered a work of art for those in need.”

Her enthusiasm in learning never stops, she participated in many dental courses and workshops conducted by world-class speakers. Erma was selected by a well-known Japanese company, GC, as its Key Opinion Leader in 2018. She toured the East coast region with AP Dr Zaihan Ariffin giving lectures and workshops for dentists in the government and private sector during Malaysia-International Dental Exhibition and Conference (MIDEC) on the use of manufactured items from GC.

Upcoming, she plans to organize dental workshop for small groups and individual classes. For updates, you can follow her Instagram account: dr.emma.saz. She records daily activities, uploading dental treatment results with information to her followers. Most importantly, she wants to show the public that having a good smile is no longer impossible.
“The pessimist complains about the wind; the optimist expects it to change; the realist adjusts the sails.”

-William Arthur Ward-