

BETTER
Healthcare Technology
FOUNDATION



ANNUAL REPORT

2019

OUR MISSION

The Better Healthcare Technology Foundation aims to support initiatives in physics, engineering and associated sciences in medicine that engender new technology for higher quality, safer healthcare techniques and better outcomes for patients and their communities.

OUR VISION

- **Promoting Science, Engineering and Physics in Medicine**

We represent and support physicists, scientists and engineers in medicine and advocate for continual innovation and advancement in this field for patient and community benefit.

- **Encouraging Tomorrow's Healthcare Techniques Today**

We encourage collaborative arrangements between researchers and health providers to support innovative new projects that fast-track tomorrow's healthcare techniques - especially those aimed at improving patient experiences and health outcomes.

- **Better access to Services; Support and Empowerment for Healthcare Workers**

We believe that the benefits of advances in medical science technology should be accessible to all, and we work to support local health services throughout our region to provide improved diagnostic and clinical treatment services to their communities.

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Dr Sean Geoghegan, Chairman

State Director Radiation Oncology
Medical Physics

Department of Radiation Oncology
SA Health, Royal Adelaide Hospital

CHAIRMAN'S REPORT

Welcome to our first Better Healthcare Foundation Annual Report - covering the 2019 calendar year, (with appendix reports also covering the last 2018-2019 Financial Year period).

This report makes up the first formal report of the Better Healthcare Foundation to its members since the Foundation's new governance arrangements came into practical existence following the first Board meeting of the Foundation in 2017. It seems much longer time has been devoted to developing the new identity and securing the Foundation on firm footing than just over two years. We still have some way to go to provide a clear identity and establish a consistent vision and message throughout the various activities undertaken by and supported by the Foundation. Nevertheless, there are some significant achievements to report on that are, in some ways, surprising and of which we can be proud to have achieved.

The first is the development of an active and engaged Board of Directors who have guided the formation of the vision of the Foundation that can be summarised by the phrase "Tomorrow's Technology Today". The idea encapsulated by this phrase is that modern healthcare systems do not often make the most efficient and effective use of technology; - the capabilities of medical devices and human ingenuity are often not able to be safely applied without having to overcome significant barriers. It is these barriers that the Foundation would like to dismantle. Achieving 'tomorrow's technology today' in this context is primarily around providing the community with informed access to trained competent professionals in medical physics, biomedical engineering and radiopharmaceutical sciences. Medical administrators often have difficulty accessing these human resources, especially in developing countries, but also in developed countries like Australia and New Zealand. In advocating for 'tomorrows technology today'

the Foundation seeks to enable modern medical technology to be efficiently and effectively deployed.

The second is the continued support of the successful program of works provided by ACPSEM members engaged with the Asia-Pacific Special-Interest-Group (APSIG). APSIG is made up of committed generous people who use their expertise in medical physics to deliver support to developing countries for the establishment of medical physics services. By far this is the most effective emergent program of works supported by the Foundation with now over ten years' experience in this field.

Thirdly is the continuation of the ACPSEM awards through the Foundation. This activity is a generous allocation from ACPSEM, to act as seed funding body for a strong "win", where an existing successful program, originally run by the ACPSEM, can be part of the Foundation's business. This provides opportunities for the Foundation to promote its members' activities and to maintain focus on the interests of the ACPSEM.

The ACPSEM has also generously supported the Foundation with office and administrative support, the most recent being a marketing officer at one- day-a-week loading to develop branded templates and communications.

I am grateful to the Board, the allocated ACPSEM staff for the Foundation, plus our generous donors and volunteers for all their efforts, as we continue our journey under a new identity.

Dr Sean Geoghegan, Chairman

ABOUT US



The Foundation aims to support technological initiatives in medicine that lead to a better outcome of patient care and better, safer healthcare services to the public.



The Foundation is committed to supporting innovations in both diagnostic and therapeutic techniques that directly benefits patients in Australian, New Zealand and Asian-Pacific hospitals.



The Foundation produces a website betterhealthcaretechnology.org that serves as an open forum and information pipeline between experts in medical science, clinicians, researchers, industry, patients and the public. The website provides information on medical technologies and techniques to improve public awareness and aid familiarity of new health services that can provide better treatment outcomes and improved quality of care.



The other area of the Foundation's work is to support emerging specialists in Australia, NZ and the Asia-Pacific; - the Foundation sponsors trips by visiting practitioners and researchers to AU - NZ for conference attendance and training programs. It also offers Awards and scholarships prizes for early career researchers, PhD students and members of the Medical Physicists profession - to recognise, nurture and encourage the next generation of leaders in medical science.



The Foundation also directly assists radiotherapy departments in lower-to-middle income country hospitals in the Asia-Pacific region build their capacity to provide improved diagnosis and treatment services to their communities. It achieves this through organising overseas volunteer assignments by Australian medical physicists to help upskill local radiotherapy staff in the installation, operation and integration of new or upgraded radiotherapy equipment and treatments.



Through the Asia-Pacific Special-Interest-Group (APSIG), the Foundation has operated in 6 countries and coordinated over a dozen successful volunteer assignment visits by medical physicists to local radiotherapy health centres in the Asia-Pacific region in recent years.



Whilst the current focus of the Foundation is on radiotherapy-related technological initiatives as a core area of expertise; it is looking to further expand its work to promote and support other emerging clinical research and development innovations utilising physics, science and engineering advances in medicine for patient and community benefit in the future.



The Foundation is managed by a Board of Directors comprising current and retired senior medical physicist leaders, supported by ACPSEM. It partners with industry, allied health organisations, Government and academia in carrying out its work.

OUR HISTORY

STAGE 1, 2007 ESTABLISHMENT

The Foundation was first registered by the Australasian College of Physical Scientists and Engineers in Medicine (ACPSEM) as a not-for-profit organisation in 2007 and was entitled *ACPSEM Medical Research Foundation Ltd.*

The Foundation was established as the conduit body for funded awards and travel grants for ACPSEM applicants to attend conferences and to visit overseas departments to extend their research. Grants, awards and prizes were totally financed from donations received from ACPSEM members and the funds were governed by the (then) College Council Executive.

STAGE 2, 2017-18 SETTING AND UPGRADING THE VISION

In the first ten years, the activities of the Foundation funded many outstanding achievements for the health community, especially in the Asia Pacific region. The College (ACPSEM) identified that there was an emergent need to establish a mechanism to attract further funding to support:

- significant new physics, engineering and associated sciences in medicine techniques and technologies for the benefit of Australian and

New Zealand patients; and

- the provision of voluntary professional physicists, medical engineers and associated scientists to provide assistance to under resourced hospitals in Asia Pacific countries.

To achieve the needs of future healthcare, the ACPSEM reviewed and established the Foundation's vision, purpose and goals. The Foundation was re-named *ACPSEM Foundation Ltd*, with its own independent Board and a new Constitution for the Foundation. The Board held its first meeting of *ACPSEM Foundation Ltd* in March 2017.

STAGE 3, 2018-19 EXPANSION

The Foundation's Board established the brand name - *Better Healthcare Technology* - and registered the website betterhealthcaretechnology.org to promote the Foundation's activities. The Better Healthcare

Technology Foundation has developed since then, continuing funding the original ACPSEM Awards through ACPSEM membership fees and ongoing support, as well as identifying additional fundraising opportunities and projects that meet the objectives of the Foundation in alignment with the interests of its member, the ACPSEM.



OUR PEOPLE - FOUNDATION BOARD 2019

The Better Healthcare Technology Foundation Board oversees the work of the Foundation, meeting every 2 months. It is composed of current or retired leaders in the fields of medical physics in ANZ and receives governance and administrative support from the Australasian College of Physical Sciences and Engineering in Medicine (ACPSEM). Board members serving during 2019 included:



Dr Sean Geoghegan, Chairman
State Director Radiation Oncology
Medical Physics

Department of Radiation Oncology
SA Health, Royal Adelaide Hospital

Sean leads a team of 20 scientists and engineers providing services to radiation oncology in the South Australian public health services. Sean has lectured on various topics covering the biological effects of radiation from lasers to x-rays. He has authored and co-authored

over 80 papers and reports and has presented at over 30 conferences and meetings including multiple invitations to speak and deliver public shows. He is past president of the Australasian College of Physical Scientists and Engineers in Medicine and is active in raising public awareness of benefits radiation oncology, medical physics, biomedical engineering and radiopharmaceutical science provides the community.



Dr Lyn Oliver AM PhD MSc
FACPSEM FAIP

Retired Medical Physicist

Dr Oliver is a retired medical physicist who accrued 50-years of experience working in physics, engineering and biological science aspects applied to medicine. He was Director of Medical Physics, Northern Cancer Services for 20 years at Royal North Shore Hospital, Sydney. Dr Oliver spent a considerable amount of his working life involved in providing and developing new innovative treatment

techniques for cancer patients to reduce treatment complications and better cure outcome. Dr Oliver helped to establish joint research and development between hospitals and universities bringing new technologies for patient health care. He also provided advice to affiliated health professional bodies including the Department of Health and Ageing. For all this work, he was awarded Member, The Order of Australia in 2004.



Ms Anna Ralston MSc MACPSEM

Director of Medical Physics,
St George Hospital Cancer
Care Centre

Anna has 30 years' research and clinical experience in Medical Physics in Canada, Germany and Australia. Having seen major improvements in radiotherapy over this time, Anna is now focussed on helping cancer patients in countries with fewer resources. She believes the best way to do this is to support the local medical physicists via provision

of scientific support, equipment, remote mentoring and regular visits from volunteer medical physicists in well-resourced countries. To help achieve these goals, Anna has worked with ACPSEM Asia Pacific Special Interest Group for the last five years, raising money through community social events such as fun runs and trivia nights. Being a board member of the Foundation enables these philanthropic activities and associated clinical benefits to be extended to those in need.

OUR PEOPLE - FOUNDATION BOARD 2019 (cont'd)



Mr Simon Downes
Chief Medical Physicist, Nelune
Comprehensive Cancer Centre,
The Prince of Wales Hospital

Simon Downes has worked at the Nelune Comprehensive Cancer Centre at Prince of Wales Hospital for the last 9 years as Chief Medical Physicist. Previous appointments were in radiotherapy physics at Royal Prince Alfred Hospital, the Mater Hospitals in Sydney and two years in the Netherlands working

for a major radiotherapy vendor. Simon has served for 8 years as an examiner for the ACPSEM Radiation Oncology Certification Panel and chairperson, ACPSEM's Asia-Pacific Special Interest Group for the last 7 years. As Chairman of APSIG during this time, Simon has coordinated voluntary professional aid to provide up-to-date training and education of modern equipment in radiotherapy centres located in many different South East Asia Pacific Countries.



**Dr Howell Round BSc (Tech) MSc
PhD FACPSEM**
Retired

Dr Round is a physicist and engineer involved in medical physics and biomedical engineering for over 45 years. He worked in Australian and New Zealand hospitals during the first 10 years and continued his science and engineering career as

an academic at the University of Waikato, New Zealander for 33 years. He was ACPSEM President (2006-7) and is currently the Secretary General of both the Asia-Oceania Federation of Organizations for Medical Physics and the International Union of Physical and Engineering Sciences in Medicine.



Ms Michaela Lauren
Digital Marketing Manager, Diabetes
NSW & ACT

Michaela is a creative and versatile marketing and communications leader with extensive experience gained in Australian and international organisations.

She has built a strong track record in digital marketing, corporate communications, stakeholder management and public relations, with speciality gained in the not-for-profit and charity sectors.



Professor Eva Bezak PhD FACPSEM
Professor of Medical Radiation at
the University of South Australia and
Adjunct at the University of Adelaide.

Eva was Chief Physicist at Department of Medical Physics, Royal Adelaide Hospital, providing services to radiation oncology in South Australia (SA). Eva lectures on various topics in nuclear and radiation oncology medical physics.

She has authored and co-authored over 110 papers, presented at conferences and co-authored books on radiotherapy physics. Eva is an active Australian representative of IUPESM

(Eva served on the Board from January up to September 2019)

FOUNDATION AWARDS

The following annual awards (now known as the Better Healthcare Technology Foundation Awards) are now managed and funded by the Foundation, through support from ACPSEM:



BOYCE WORTHLEY YOUNG ACHIEVER AWARD

Significant contribution to the profession of physical and engineering sciences in medicine

Approx
\$3,000 - \$4,000



RICHARD BATES TRAVEL SCHOLARSHIP

To undertake a period of study or carry out a research project overseas

Up to
\$5000



DAVID ROBINSON INNOVATION AWARD

To attend the EPSM conference to present a paper detailing innovative work related to diagnostic imaging or biomedical engineering

Conference attendance costs up to
\$1,200



KENNETH CLARKE JOURNAL AWARD

Best original paper published in *Australasian Physical and Engineering Sciences in Medicine* authored by a College member

\$500
Plus certificate



ACPSEM PHD AWARD

Best PhD Thesis in the Physical and Engineering Sciences with relevance for medical technology

\$500
Plus certificate



ACPSEM DISTINGUISHED SERVICE AWARD

Acknowledgement of ACPSEM member who has made an outstanding contribution to the College and the profession over many years

Trophy and certificate

Some of our recent award winners are highlighted in a later section of this report.

SPONSORED PRIZES AND AWARDS



ELEKTA TRAVEL AWARD

The Foundation administers a bi-annual award from Elekta to cover the cost of attending a regional conference to a young career medical physicist, either based in the Asia-Pacific or Australia/ NZ intending to travel to a conference in the region. In 2018 the recipient was Syarifatul Ula from Dharmais National Cancer Hospital, Indonesia.



Syarifatul Ulya - Recipient of the 2018 Elekta Travel Award

OUR SUPPORTERS

The Foundation is proudly supported by our sole member: Australasian College of Physical Scientists and Engineers in Medicine. The Foundation is also grateful to receive the generous donations and funds from industry companies such as Elekta, Brainlab, and Gamma Gurus. Public donations and funds raised during 2019 also helped to finance our volunteer projects.



OUR PARTNERS

The Foundation worked alongside a number of key bodies during 2019 - these organisations providing vital facilitation, administrative, technical, regulatory and project coordination support across a range of volunteer assignments and promotional initiatives the Foundation undertook throughout the year. The three most prominent are outlined below:





FOUNDATION REPORT CARD

Achievements Measured against Objectives 2018-2019

1. SUSTAINABILITY

a) MARKETING

Aims

- Rebrand and launch foundation to establish recognisable identity that appeals to multiple possible donors and supporters
- Utilise social media and web presence to communicate vision goals and achievements of Foundation

Activities

A graphic designer was engaged to finalise the Foundation Logo. Logo was launched at EPSM 2018.

New Foundation brand colour scheme introduced 2019, collateral developed for EPSM 2019.

Website redesigned and rewritten, new navigation introduced, new content added.

Outcomes

- Positive response to new branded materials
- New operational website with online donation function; web statistics reported regularly

b) FINANCIAL SUSTAINABILITY

Aims

- Enable purpose given funds to be properly utilised
- Diversity funding sources

Activities

Identified APSIG Reserve from general cash reserves. Provided dollar value of APSIG activities to Chair for consideration for use in launch of Foundation.

Propose new ACPSEM membership proposal to cover governance and costs of Awards.

Set targets for fundraising and partner support donations.

Outcomes

- Achieved 3 different funding sources for the Foundation over 2018-19: ACPSEM; Elekta; BrainLab and donations from ACPSEM members and public
- Total funds established above targets 2018-19
- ACPSEM agreed to fund the salary of a Project Officer for one year.

c) FUNDRAISING AND PARTNERSHIPS

Aims

- Hold major fundraising activity each year
- Engage and enthuse stakeholders to sponsor and support the Foundation

Activities

Fundraising activities focussed on EPSM 2018 & 2019, both for APSIG and Foundation activities.

Brainlab contract signed on April 2019 for a further 2 years.

Model Linac project launch EPSM 2019 and now under further expansion.

Outcomes

- Growth of EPSM silent auction and general fundraising 2017-2019
- Matching of funds generated from public and supporters to partner donation initiatives



FOUNDATION REPORT CARD

Achievements Measured against Objectives 2018-2019 (cont'd)

2. IMPACT

Aims

- Undertake worthwhile projects
- Provide opportunities for, and support of, volunteers in Foundation activities

Activities

Volunteer assignments to Cambodia, Vietnam and Mongolia undertaken over reporting period.

Working with international organisations to identify and scope new projects.

Recognition of the contribution volunteers have made to the College and Foundation.

Outcomes

- 3 successful assignments undertaken and reports submitted 2018-19
- Volunteers presented with certificates and trophies at EPSM 2019
- Special volunteers showcase and project reporting channelled on website
- Elekta travel grants fulfilled and administered 2018 & 2019

FINANCIAL HIGHLIGHTS 2018-19

The Foundation finished the 2018-19 financial year in an improved and balanced financial position with a net profit from its activities of \$7,329.86. This represented an increase of 81% on the previous operating surplus achieved in the corresponding 2017-18 period of \$4,052.70.

During the 2018-19 reporting period the Foundation continued to pursue its activities to raise funds for promoting and furthering the development of physical sciences and engineering initiatives in medicine. The organisation was able to achieve balanced diversification of income streams. Income achieved in the 2018-19 reporting period totalled \$38,170, made up of donations (public and partner contributions) - 44%, activities income - 22%, and allocated ACPSEM member contributions - 34%.

Total expenses amounted to just over \$31,000 for the financial year 2018-19, comprising administration 8%, prizes and awards 54%, Board and sundry operating expenses 38%. The Foundation was able to undertake its activities through fundraising and partner donations over the 2018-19 period whilst operating below the

recommended administration costs on funds-received best practice ceiling for charitable organisations of 11%.

The Balance Sheet and Profit and Loss Statements for 2018-19 are presented in Appendix A.

NOTE:

In the ensuing 6 months to end December 2019, the Foundation improved its Financial Position to achieve a net profit of \$53,967.64, due to increased partner donations and net asset receivables from the ACPSEM. The Foundation entered 2020 with a total equity of over \$100,000. This strengthened position has enabled the Foundation to maintain a part-time project support officer 0.2 FTE to assist with Foundation communications and operational requirements.

OUR WEBSITE REPORT

The Foundation's betterhealthcaretechnology.org website became operational in September 2018. It was officially launched during the October EPSM 2018 National Conference. ACPSEM members were invited to register to become subscribers and support the website as it was more firmly established.

SCOPE OF THE WEBSITE

Access to the website is so far unrestricted. It is open for any person globally to read the published BHT Website material. It's designed to provide news, regular posts and important information on medical technology.

The website has three main strands that cater for:

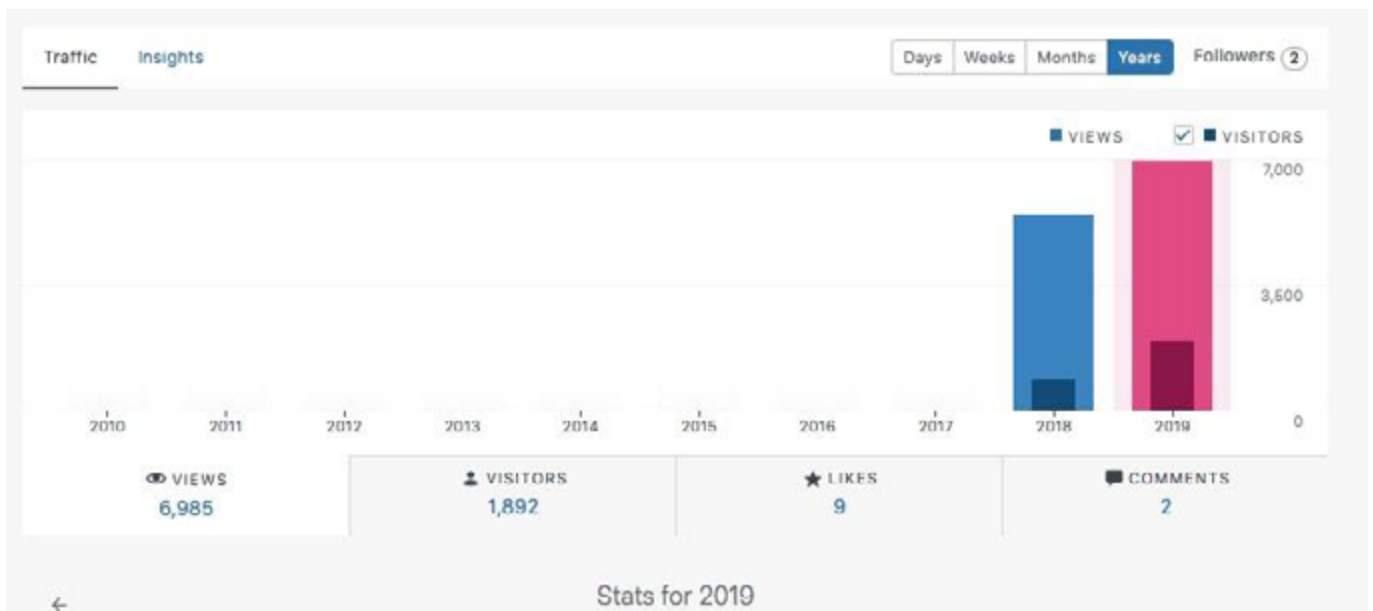
1. Medical information for the community;
2. Industry knowledge sharing for the profession; and
3. Information and updates on Foundation activities the Asia-Pacific region.

The site is designed to provide an open forum and information

service in these strand topic areas, for the public, industry and medical professionals.

The website also has a 'Pioneer and Archives' section which has proved to be popular. This section is essentially a growing information bank on past leaders in the profession and major achievements members of the profession have contributed to providing advancements in healthcare technology.

NUMBER OF VISITS AND VIEWERS



By December 2018, approximately 80 members had subscribed to the website. The number has slowly increased to 110 by September 2019.

Even with this initial small number of subscribers, increases in the number of views generated from October 2018 to September 2019 is an encouraging result.

There were 5,400 views (840 visitors) in 2018 and 7,000 views by 1,900 visitors this year. The 2019 visitors averaged 4 pages viewed per visit.

MONTHLY STATISTICS



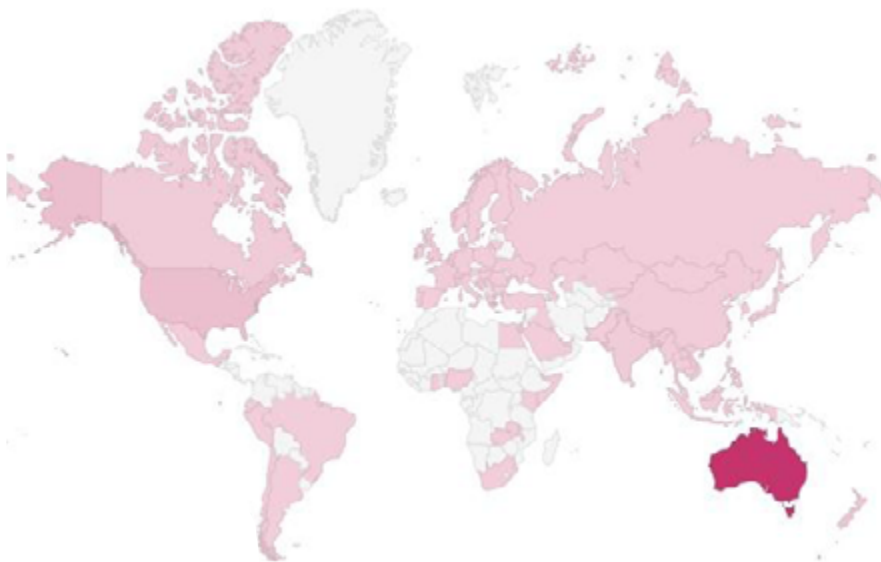
There's a fairly consistent 800 - 900 monthly views made by 300 - 400 visitors. In periods when a more popular article was posted the traffic peaked. For example,

September 2019 had 1105 views by 358 visitors.

These figures project the current rate to be 2,500 visitors per year in 2020.

There's plenty of potential for further traffic increases as more and more people are attracted to the Foundation's website.

INTERNATIONAL VISITORS



Not all the visitors are subscribers. The website has visits from more than 80 countries.

The top six countries visiting betterhealthcaredtechnology.org are:

Australia	76.3%
USA	7.6%
New Zealand	3.8%
India	1.3%
UK	1.3%
Canada	1.1%

1 5,340

The website has constant security protection that guards against attacks and it blocks blacklisted sites.

There is, however, also significant numbers of blocks registered from USA, Canada, Scandinavia and South America.

OUR WEBSITE REPORT (cont'd)

WEBSITE MATERIAL

Even though we have spent considerable time and effort developing an 'attractive' website to view and is easy to use, the most difficult task is keeping up publishing a regular supply of good quality articles. Without that, the website would wither and fail.

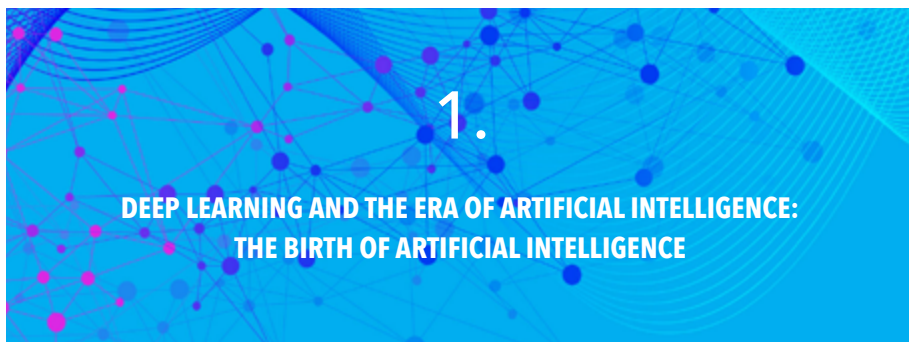
77 posts were published this year, 2019. There appeared to be a solid response for most of the articles published. There needs to be a transition from having to hunt for contributors on selected topics to there being members who want to be contributors.

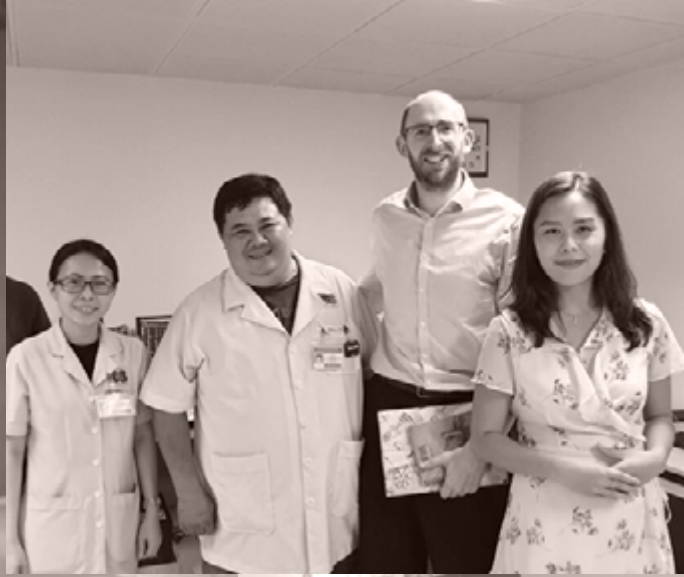
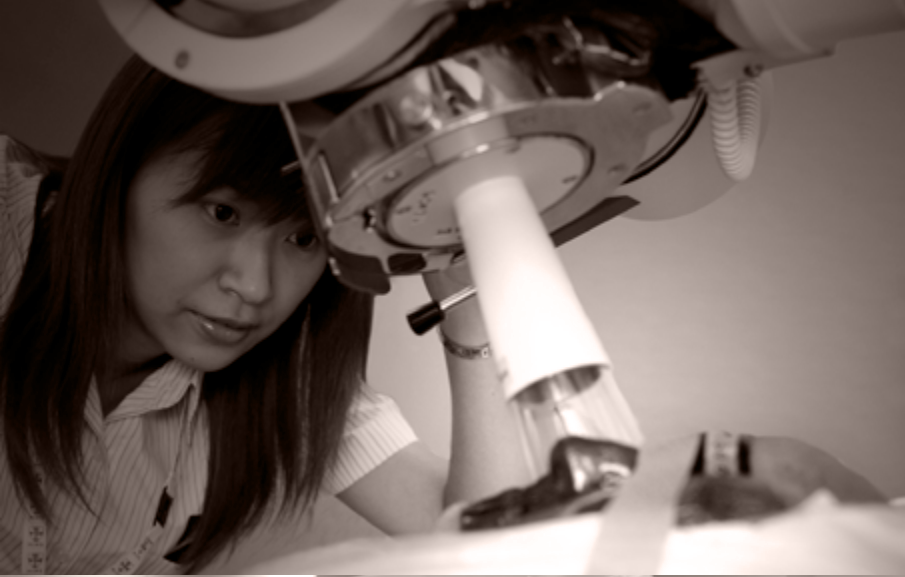
TOP ARTICLES PUBLISHED FOR 2019

With so few regular visitors, the number of views for articles published still provides us valuable information on what was a popular

topic as news and what were topics providing valuable information. The top views have occurred in all areas published on the website.

Top five articles accessed in 2019 were as follows:





APSIG
 Asia Pacific Special Interest Group
REPORT 2018-19



ASSIGNMENTS 2018-19



CAMBODIA

In November 2018 medical physicist and APSIG volunteer *Nikki Shelton* completed a 12 month assignment as an AVID volunteer training local Radiation Oncology Medical Physicists (ROMPs) at Calmette Hospital, Cambodia. This was the longest voluntary training assignment to date undertaken by APSIG and *Nikki* took her young family over the Cambodia for the duration of her assignment for a complete cultural as well as professional experience. The assignment was a great success and *Nikki* was invited to present her report on the outcomes achieved at the 2018 IUPSEM world congress meeting in Prague.



MONGOLIA

In March 2019, Medical Physicist *Abdurrahman Ceylan* travelled to Mongolia in 2018 to provide training to staff at the only specialised cancer hospital in the country, the National Cancer Centre of Mongolia (NCCM), which is located in Mongolia's capital city Ulaanbaatar. This trip built upon the relationship that had been fostered by previous volunteers and APSIG representatives and was the first training assignment to Mongolia organised by APSIG. This assignment was for 5

weeks duration. A subsequent follow up IAEA mission to Mongolia was undertaken by ACPSM member *Soo Min Heng* in June 2019, providing advice on 3D conformal radiotherapy treatment planning and quality assurance.

In September 2019 *Allison Scott* from Perth WA commenced an AVIDS Assignment as a ROMP trainer at the National Cancer Centre. Her project focused on developing training procedures for the commissioning and Quality Assurance installation of linac-based radiotherapy equipment.



LAOS

NZ Physicist and ACPSEM member *David Little* undertook a 4 week assignment at Mittaphab Hospital Vientiane in Laos in October 2019. *David* successfully worked alongside local RT staff on the development of a QA program, improving planning

and delivery techniques and developing an independent verification system for treatment planning.

RECOGNITION AND CELEBRATION

In 2019 APSIG celebrated its 10 year anniversary and to mark the occasion a special 2009-2019 APSIG anniversary brochure was produced, marking 10 years of achievements: - 20+ volunteering assignments in 7 countries to date, and over \$100,000 raised for APSIG to continue its vital work in the Asia-Pacific region.

As part of the anniversary celebrations, previous APSIG volunteers were contacted and presented with a special commemorative trophy and Certificate of Appreciation from the Foundation at the EPSM conference in October 2019. A special award was also presented to founding APSIG member and current Chairman Simon Downes for all his work organising and coordinating volunteering assignments over the last 10 years.



FUNDRAISING REPORT

Funds raised across 2019 to support the Foundation's activities sourced from public donations, EPSM conference fundraising initiatives and specific industry event donations and support.

Total funds raised in 2019:

>\$10,000

including support from **Elekta**, **Brainlab** and **Gamma Gurus**, and matched funds raised from **ACPSEM** members and the general public.

Public funds were raised through a series of events and initiatives organised through local APSIG committees in each state.

TRIVIA NIGHTS

RECYCLING DRIVES

SPONSORED WALKS

SILENT AUCTION HOSTING

FITNESS CHALLENGES



HIGHLIGHTS IN 2019

EPSM Conference Silent Auction

in late October raised nearly

\$5,000

Beachside Dash event

at Botany Bay in Sydney in September

FOUNDATION AWARD WINNERS 2019

Better Healthcare Foundation Awards announced during the 2019 Engineering and Physical Sciences in Medicine (EPSM) Conference covered 4 Award categories:



PHD AWARD

Joint Winners:

Dr Jake Forster

(Stochastic Squared Radiotherapy - S2RT)

Dr Ben Cooper

(image-guided radiation therapy [RT 4D CBCT])



RICHARD BATES TRAVEL AWARD

Joel Poder

Outstanding PhD candidate, who will be completing a placement at Fondazione IRCCS "Istituto Nazionale dei Tumori" in Milan in 2020 to continue his research work on high dose prostate brachytherapy systems.



KENNETH CLARKE JOURNAL AWARD

'MLC positioning verification for small fields: a new investigation into automatic EPID-based verification methods'

Jointly authored by: Joshua Hiatt, Godfrey Mukwada, Michael Barnes, Hans Lynggaard Riis, Du Huynh, and Pejman Rowshanfarzad.



BOYCE WORTHLEY YOUNG ACHIEVER 2019

Dr Michael Jameson

Radiation oncology medical physicist

For his outstanding teaching, student supervision and publication output and support for colleagues

Medical Physicist Jarrod Begg accepts the Boyce Worthley Young Achiever Award from Foundation Chairman Dr Sean Geoghegan on behalf of his Liverpool Cancer Centre colleague and 2019 award winner Dr Michael Jameson, EPSM Perth 2019.



WELCOME 2020 - NEW FOUNDATION INITIATIVES

During 2019 the Foundation was centrally involved in the #Modellinac project; – the design, creation, launch and distribution of an innovative model lego mini-linac machine, officially unveiled at the EPSM conference in October 2019.

EMPATHY IN ACTION - THE #MODELLINAC PROJECT

The model linac is designed as an instructive and engagement aid to support young cancer patients and their families through the radiation treatment process. Its development has attracted the interest of media as well as health providers.

The Project was a combined initiative of the Better Healthcare Technology's Foundation's Dr Sean Geoghegan, cancer patient community advocate Julie McCrossin, and award-winning young lego designer Connor Brennan from connorsbricks.com – along with his supportive family.

The lego linac model was developed in two variants: a Health Provider Model, featuring a lifelike bed swivel and gantry turn & tilt mechanism that is powered by mobile phone bluetooth. The Patient Model is a smaller more compact device with basic turn and swivel movements from both the bed and gantry positions adjusted manually via a crank wheel.

Samples of the model were displayed in public for the first time at EPSM 2019 and the items available for bidding on the silent auction Foundation fundraising platform. The response was

overwhelming with strong interest by conference attendees, hospital representatives and medical professionals alike to acquire these units for young radiotherapy patients to experience both here and overseas. \$15 from each model bought at the Silent Auction was donated to the Foundation – with all 27 models available via the Auction quickly snapped.

The Foundation will continue to work with colleagues and industry partners to facilitate broader distribution of these models to treatment centres as a key priority project for 2020 and beyond.



Model Linac on display at the EPSM 2019 conference in Perth, October 2019



HOW YOU CAN SUPPORT US

Make a donation
to the Foundation via its
website:

betterhealthcaretechnology.org
(all donation tax deductible)

Help with and/
or participate in local
fundraising projects
operated across Australia
(see website for details)

Contribute to the
website with an article,
blog of your own or
provide feedback through
the comments section
of the site

Help publicise
and promote in work
of the Foundation in
your community or
organisation

Sponsor a special
Foundation project or
initiative; - as a supporter,
joint-venture partner
or donor

Register on the
Foundation's website
and subscribe to receive the
latest articles and posts on a
wide range of innovations in
radiotherapy-related medical
science technology

Contribute to
the website with an
article, blog of your own or
provide feedback through the
comments section of the site

(current accredited medical physicists
and ACPSEM members can
receive CDP credit for authoring
approved publications on the
Foundation website)



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FINANCIAL REPORTS 2018-19

Profit & Loss Statement July 2018 to June 2019

Income	
Donations	\$16,703.07
Activities Income	\$8,467.48
Membership Fees	\$13,000.00
Total Income	\$38,170.55
Total Cost of Sales	\$0.00
Gross Profit	\$38,170.55
Expenses	
Marketing	\$643.30
Dues & Subscriptions	\$672.97
Legal & Accounting	\$1,276.36
Employment Expenses	
Superannuation	\$93.18
Wages & Salaries	\$980.79
Total Employment Expenses	\$1,073.97
Printing	\$2,540.89
Prizes and Awards	\$13,336.18
Board Meeting Expenses	
Board Travel	\$1,191.45
Meals	\$91.27
Grants	
Travel	\$7,454.11
Accommodation	\$1,885.01
Meals	\$840.00
Total Expenses	\$31,005.51
Operating Profit	\$7,165.04
Other Income	
Interest Income	\$164.82
Total Other Income	\$164.82
Total Other Expenses	\$0.00
Net Profit/(Loss)	\$7,329.86

FINANCIAL REPORTS 2018-19

Balance Sheet 30.06.2019

Assets		
Current Assets		
Cheque Account (Cash on Hand)		
Foundation General Funds	\$11,205.46	
APSIG Funds	\$32,421.49	
Elekta Funds	\$8,605.05	
Total Cheque Account (Cash on Hand)		\$52,232.00
Total Current Assets		\$52,232.00
Other Assets		
Pledges & Receivables	\$5,000.00	
Total Other Assets		\$5,000.00
Total Assets		\$57,232.00
Liabilities		
Current Liabilities		
Trade Creditors	\$5,288.47	
Other Creditors	(\$200.00)	
GST Liabilities		
GST Collected	\$1,300.00	
GST Paid	(\$418.43)	
Total GST Liabilities		\$881.57
Superannuation Payable	\$93.18	
Total Current Liabilities		\$6,063.22
Total Liabilities		\$6,063.22
Net Assets		\$51,168.78
Equity		
Retained Earnings	\$43,838.92	
Current Year Surplus/Deficit	\$7,329.86	
Total Equity		\$51,168.78

SUMMARY OF AUSTRALIA-WIDE FOUNDATION FUNDRAISING EVENTS 2018-19

NORTHERN TERRITORY

TEAM NO TEARS

They make them tough in the Northern Territory and with sun 365 days round and crocs roaming the streets, there's no room for tears.

The TNT team from the Alan Walker Cancer Care Centre in Darwin consists of a mix of RTs and Physicists fearlessly led by our Elekta Engineer, Anthony Herring who can lift one of these bins with his bare pinky finger. The team has started their fundraising with a

'Cash for Containers' activity collecting bottles and cans from the department in exchange for a 10c refund going straight into APSIG. The team has also started a lunchtime training program, swimming laps in the hospital pool and doing intense workouts arranged by our Principal RT, Elly Keating.

*Note: Great Northern tinnies not consumed on site.



'Team No Tears' collecting cans and bottles for APSIG

WESTERN AUSTRALIA

A STEP IN THE RIGHT DIRECTION

It was a stormy Sunday morning, October 14 to be exact, when members of the WAAF (West Australian APSIG Fundraisers) met at the bottom of what seemed like an impossible task. A far cry from the safety of the air-conditioned bunkers, the eleven strong crew tied their shoelaces and looked up the 242 concrete stairs the awaited them. The team had representation from ROMPs and DIMPs, public and private, physicists, RTs and nurses, all banding together for WA's first APSIG fundraiser. They donned their matching Gamma Gurus shirts, and like in the Book of Genesis, the heavens opened and blessed the team with an hour of sunlight to complete their 1000 step challenge.



WA team tackling Jacob's Ladder.

NEW SOUTH WALES

TEAM SUPREME SYDNEY

TSS had a great turnout and perfect weather for the Beachside Dash (special thanks to Gamma Gurus for sponsoring the fabulous new APSIG T-shirts which attracted lots of attention at the course!).

Jonathon Sykes also ran 35 km from Palm Beach to Manly - what an amazing effort. Well done Jonathon, that's exactly half of the 70 km the rest of TSS did combined!



The 'Team Supreme' Sydney runners after blitzing the Beachside Dash

QUEENSLAND

WESLEY WONDERS

Shadi Khoei and the rest of the Wesley Wonders cooked up a storm for their inaugural APSIG fundraising morning tea. It wasn't all traditional party pies and scones, the spread included

delicious Middle Eastern dishes, all decorated with the word "APSIG." Who knew fundraising could be this much fun?



Let the feast begin!

SOUTH AUSTRALIA

EPSM FUNDRAISING EVENTS

In 2018 the ACPSEM's annual Engineering and Physical Sciences in Medicine conference was held in Adelaide.

To support APSIG the conference organisers included a fun run, a silent auction, a Hollywood photography session at the conference dinner, and the ever

popular APSIG trivia night. They were all a huge success and raised significant funds to support APSIG's projects in the Asia-Pacific region.



Five members of the Foundation Board at the EPSM Black Tie Gala Dinner. From left: Anna Ralston, Simon Downes, Susie Zhong, Sean Geoghegan and Eva Bezak.



The fabulous organising committee of the 2018 APSIG 'Trivia Night'



The dedicated APSIG runners at the Torrens River shortly after dawn.

VICTORIA

TEAM QUALITY MELBOURNE

Tomas Kron rode the truly heroic L' Eroica bike circuit in Italy and another epic trip around Mt Ventoux in France, and dedicated these marathon journeys to APSIG.

It wasn't all sweat, tears and aching knees, it is understood that there were a fair few stops for coffee and vino rosso along the way.

Back home Peta Lonski wasn't to

be outdone as she completed the 13.5 km Harvest Run, while Jeff Harwood walked a fair chunk of the spectacular Great Ocean Walk for APSIG.



Tomas Kron cycling for APSIG in Europe



Peta Lonski's Harvest Run



Jeff Harwood at the Great Ocean Walk