Medical Fund
Newsletter: Autumn 2014

Inside

Plans for a new dental technology suite
See Page 2

Katherine Grainger opens new arthritis research centre
See Page 4

World recognition for University professor
See Page 5
Chairman’s introduction

Welcome to the autumn edition of the Medical Fund newsletter. We had a very exciting summer in Glasgow, with many tourists and athletes taking the opportunity to visit the University while in the city for the Commonwealth Games.

We continued the sporting theme with our Arthritis Centre of Excellence being launched by Olympian and Alumnus, Dr Katherine Grainger. Our annual ‘Cycle Glasgow’ event attracted more than 350 participants and raised over £14,000.

The College of Medical, Veterinary & Life Sciences’ Institute of Health & Wellbeing is our newest major academic group. You can read about its exciting and important work, which is informing policy designed to improve population health, for example by changing behaviour associated with an increased risk of heart disease or with mental health problems in the UK and abroad.

We also celebrate the official opening of a £3m state-of-the-art teaching extension at the Scottish Centre for Ecology & the Natural Environment, which was opened in August by Professor Muffy Calder, the Chief Scientific Officer for Scotland.

We showcase the Dental School and its plans to raise funds for a new teaching suite, plus, you can find out how one of our Professors has been named among the most influential biomedical scientists in the world.

I hope you enjoy this edition of the newsletter.

Professor Sir Michael Bond
Chair, The Medical Fund

A dental technology teaching suite for the 21st Century

In the 135 years since its establishment, the Dental School has evolved progressively in response to both professional and educational advances. The radically revised BDS curriculum, introduced in 2004, has been highly acclaimed, achieving 100% overall student satisfaction in the four consecutive National Student Surveys of 2011-2014.

Capital funding from both the University and NHS Greater Glasgow & Clyde has resulted in major improvements to the teaching and clinical infrastructure at the Dental Hospital & School. One Dental School teaching facility, however, remains unfit for purpose and is the subject of current fundraising. This is the Prosthodontics Teaching Laboratory, an area in which students spend a significant amount of time learning about the technical aspects of dental prosthesis construction.

The Dental School and the Glasgow Dental Alumnus Association will be organising a series of events for dental graduates to raise the estimated £300,000 it will cost to refurbish the laboratory. We are at the very beginning of the fundraising campaign but have already received a very generous donation of £20,000 from Dr Andrew Barr in memory of his wife, Margaret Stirling, a Glasgow dental graduate and a highly respected practitioner.

What is Dental Technology?

Dental technology is a branch of health technology dealing with design, fabrication and maintenance of dental, oral and oro-facial appliances to replace missing parts of the dental and oro-facial tissue following loss through pathological processes or surgery, or to underpin orthodontics or dento-facial orthopaedics.

Dental technologists work very closely with dentists and so dental technology is a fundamental component of the BDS curriculum. Its scope extends from construction of a single ceramic crown to the construction of large maxillofacial devices for patients who have suffered major trauma or extensive surgery for head and neck cancer.

What’s changed?

• Advances in materials, clinical techniques and technology
  Advances in biomaterials research have allowed dentistry to enter the ‘post-amalgam era’ through use of nanotechnology to develop different materials. Progress in computer-aided design (CAD) and computer-aided manufacturing (CAM) mean that we can now accurately replicate the complex tooth structure. Advanced scanning, laser sintering, milling and 3D technologies are among those revolutionising clinical practice.
Students develop their skills in the Clinical Techniques Facility.

- **What we teach**
  The General Dental Council details Intended Learning Outcomes which all UK dental school curricula must reflect. Many of these relate to dental technology, for example materials science, biomechanics, prosthesis design and implant treatment options. Dentists must also be able to evaluate the need for more complex treatments and refer accordingly, requiring in-depth understanding of the rapidly changing world of dental technology.

- **How we teach it**
  Dental technology teaching in Glasgow has changed significantly in recent years, driven largely by educational research and publications of existing staff. The excellence of the teaching staff in this area has been acknowledged by recent successes in the University Student Representative Council’s Student Teaching Awards for 2011/12 and 2012/13 and two Teaching Excellence Awards presented by the Principal. The planned teaching suite will ensure that the space is fully utilised to optimise teaching delivery using the innovative methods pioneered in Glasgow.

The new facility

The current ‘Prosthodontics Teaching Laboratory’ was designed for a previous era. The new technology suite will provide students with a state-of-the-art facility that is versatile, fit for purpose and which links clinical and laboratory teaching. The IT facilities will bring practical task demonstration directly to the student via individual workstation screens, and will allow the harnessing of digital solutions, such as 3D scanning, for treatment planning and analysis. The ability to split the suite into two smaller areas will greatly increase the flexibility and intensity of use of the space.

Adjacent to the planned Dental Technology Teaching Suite is a recently refurbished Clinical Techniques Facility, with 49 ‘phantom heads’ on which pre-clinical dental students practise a variety of clinical procedures. The co-location of these facilities will help to cement the interface between clinical and technological learning outcomes for students on the BDS course.

Core elements of the new suite will include:
- Replacement of the traditional rows of benches with purpose-built ‘island’ units supporting individual workspaces equipped for all aspects of dental technology, enhancing student-student and student-staff interaction.
- New dust extraction units, satisfying modern health and safety requirements.
- Installation of air conditioning to deal with over-heating of the environment.
- Addition of audio function to the existing visual projection system and screens at each work-station.
- A room divider to allow more flexible use of the space.

The teaching suite will ensure that the space is fully utilised to optimise teaching delivery using the innovative methods pioneered in Glasgow.

Further information

- **Visit**
  www.glasgow.ac.uk/dentalappeal
- **Contact**
  Laura Morton
  Medical Development Officer
  T: +44 (0)141 330 3878
  E: laura.morton@glasgow.ac.uk
Over 350 participants and over 30 volunteers took part in Cycle Glasgow 2014 on Sunday, 17 August. Starting at Kelvingrove Park, participants chose to take on a 13 or 26 mile challenge, heading towards Clydebank before cycling back on the Forth & Clyde Canal.

All of the money raised funds the work of the Paul O’Gorman Leukaemia Research Centre at Gartnavel Hospital. The Centre was opened in 2008 and incorporates the latest research technologies, bringing international leaders in leukaemia research to Glasgow and ensuring that patients, clinicians and researchers benefit from some of the country’s most advanced facilities and equipment.

We welcomed back a number of committed supporters, including over 50 members of the McGuigan family, the Provan Peddlers and Team Teacake from Tunnock’s. It was also nice to welcome new faces on the day. So far, over £14,000 has been raised with more sponsorship donations expected to come in over the next few months.

£3m extension for SCENE

Professor Muffy Calder, the Chief Scientific Officer for Scotland, opened a £3m state-of-the-art teaching extension at the Scottish Centre for Ecology & the Natural Environment (SCENE) on 21 August. It completed a total replacement of SCENE’s facilities, begun with a new £3.6m research wing, which opened in 2007.

The opening was celebrated by over 60 staff, donors and others who had been involved in the field station. They included the stepdaughter of the founder, Dr Harry Slack, who helped paint the original huts of the first field station in 1946. The new facilities have already welcomed the first students.

Professor Colin Adams, Director of SCENE, said: ‘We’re delighted by the financial support we’ve received from the public. More than 550 donors contributed towards the expansion of SCENE and their enthusiasm for our work is tremendously inspiring’.

Donors can continue to give to SCENE but the new priority project in the College of Medical, Veterinary & Life Sciences is our David Livingston Fund in Global Health and Biodiversity. To find out more visit www.glasgow.ac.uk/globalhealth

The Arthritis Research UK Rheumatoid Arthritis Pathogenesis Centre of Excellence was launched in June by Olympic gold medallist Dr Katherine Grainger in the opulent surroundings of the Banqueting Hall of Glasgow City Chambers.

The project, a partnership between the universities of Glasgow, Birmingham and Newcastle, aims to find out more about the causes of rheumatoid arthritis, a serious, inflammatory, auto-immune condition that affects the joints and the body’s internal organs leading to chronic pain and fatigue.

Arthritis Research UK is contributing £2.5 million to the project with the three universities contributing an additional £4 million. Part of the funding allows for the recruitment of PhD students and post-doctoral researchers. They will spend time based with at least two of the partners, enhancing communication between the 3 centre hubs.

The event, which was attended by around 200 guests including researchers from the three partners and sponsors, and patients, schoolchildren and clinicians from the Glasgow area, was compered by sports presenter, Alison Walker. The High School of Glasgow Chamber Choir entertained the guests with pieces from their award-winning repertoire. Posters were prepared by rheumatology researchers to explain the disease and the Glasgow Science Centre was there with a number of their touring exhibits.

A personalised approach

Professor Iain McInnes, Director of the Institute of Infection, Inflammation & Immunity at the University of Glasgow, will lead the new centre. He said: ‘This new centre aims to address the unmet needs of more than 400,000 people in the UK who suffer from the crippling condition of rheumatoid arthritis. It will help us learn more about the mechanisms behind this disease and how we can use this knowledge to develop more effective treatments, and maybe even one day a cure.’

‘What we hope this new centre will enable us to do is to take a much more personalised approach to rheumatoid arthritis, so that patients can benefit from treatments more attuned to their own experience of the condition and their own physiology.’

Giving to arthritis research

• Visit www.glasgow.ac.uk/givingtoglasgow
• Contact Laura Morton Medical Development Officer
  • T: +44 (0)141 330 3878
  • E: laura.morton@glasgow.ac.uk
Professor named one of the world’s most influential biomedical researchers

Professor John McMurray, of the Institute of Cardiovascular and Medical Sciences, has been named as one of the most influential biomedical researchers in the world. He is included in a list of 400 highly influential scientists based on citations by other academics.

The list, published in the European Journal of Clinical Investigations, was compiled by researchers in the US who are using it in a survey to ascertain what features of scientific papers define ‘major impact’.

Professor McMurray leads an extensive programme of research into heart failure which includes studies of pathophysiological mechanisms and drug action, population based outcome studies and clinical trials.

30,200 citations
He has published 585 papers between 1996-2011 which have been cited 30,200 times, meaning Prof McMurray's work has greatly influenced other academics in the field who regularly reference his research.

Clyde FC and Think Pink Scotland join forces

With the help of their supporters, Think Pink Scotland are committed to continuing to raise funds for breast cancer research. Any future funds raised will help to maximise the potential for ground-breaking cancer research discoveries within the University of Glasgow’s cancer research labs by funding world class scientists and purchasing state-of-the art equipment.

Club Director, Bobby Gracey said ‘After spending time with the charities team and researching their excellent work in the West of Scotland area they were quickly identified as a perfect fit for Clyde Football Club. We are delighted to be able to assist in raising awareness of breast cancer, which affects both men and women, whilst doing everything we can to financially contribute to the excellent research work being undertaken every day at Glasgow University.’

Helping to translate research into effective treatment for patients.

Lynn Murray, Think Pink Scotland’s founder, said, ‘As a result of support from the public over the past few years, Think Pink Scotland has already funded two vital pieces of research equipment and a new cancer research lab in Glasgow. We want to continue to raise funds to help scientists translate their research into new and more effective treatments for patients. It is fantastic that the support from Clyde FC will help us to do this’.

Clyde Football Club joined forces with Think Pink Scotland, an associated charity of the University of Glasgow, for season 2014/15. The relationship will see Clyde FC first team wear a pink strip with the ‘Think Pink Scotland’ logo on the collar of the third strip.

The club has further agreed, in conjunction with kit supplier Only Sports, that 20% of all sales will be donated to Think Pink Scotland.

Think Pink Scotland was established in 2006 when two friends, Lynn Murray and Ann Graham, were diagnosed with breast cancer in the same week. As a result of Think Pink Scotland’s remarkable fundraising so far, a new laboratory has been built in the Wolfson Wohl Cancer Research Centre, located in the University of Glasgow’s Garscube Estate campus. This Centre – which was officially opened in May 2014 – is a much needed catalyst for accelerating the process of understanding cancer, improving existing therapies and identifying new ones and bringing them to patients. The group have also successfully fundraised for two vital pieces of research equipment.

Some of the Clyde FC players in their new ‘Think Pink Scotland’ strip.

Helping to translate research into effective treatment for patients.

Lynn Murray, Think Pink Scotland’s founder, said, ‘As a result of support from the public over the past few years, Think Pink Scotland has already funded two vital pieces of research equipment and a new cancer research lab in Glasgow. We want to continue to raise funds to help scientists translate their research into new and more effective treatments for patients. It is fantastic that the support from Clyde FC will help us to do this’.
Prevention rather than cure for the Institute of Health & Wellbeing

The Institute of Health & Wellbeing (IHW) is one of the seven Research Institutes at the University. Set up in August 2011, it has 302 staff and aims to improve population health and wellbeing and reduce inequalities in health.

Exciting developments in basic biomedical or clinical science, for example, the link between smoking and cancer and the identification of the retrovirus causing AIDS, do not of themselves automatically produce population health benefit. They only do so if translated into changes in individual, professional, and organisational behaviour. The work of the Institute complements this biomedical and clinical science and also provides robust evidence about the effectiveness and cost effectiveness of changes in policy and practice.

Two pieces of current research being undertaken in the Institute are highlighted below.

Demonstrating and promoting the benefits of smoke-free policy

Smoke-free laws have been in place in Scotland since March 2006. Studies led by the IHW have provided the strongest available evidence that smoke-free laws have a significant impact on rates of heart disease, childhood asthma, complications in pregnancy, and stroke. This evidence has been used to support policy debate and decision making in Scotland, the rest of the UK, and around the world and provided guidance for other countries to implement similar legislation.

Improving access to self-help therapies for mental health

An estimated one in four people in the UK will experience depression or anxiety at some point in their lives. Cognitive behavioural therapy (CBT) is the most widely recommended non-medication based treatment for common mental health problems, although access to this treatment is limited because of low numbers of expert practitioners. Self-help CBT resources developed by researchers at the IHW have been integrated into routine clinical practice delivered by health services and the voluntary sector in the UK, Ireland and Canada and since 2008 these practical resources have provided support to over 200,000 users online and an estimated 250,000 people on a one-to-one basis or within a class.

Further information

To find out more about the Institute of Health & Wellbeing, please contact:
• Laura Morton
  Medical Development Officer
  T: +44 (0)141 330 3878
  E: laura.morton@glasgow.ac.uk

40 years of the Glasgow Coma Scale

The Glasgow Coma Scale (GCS) is a neurological scale used by medics around the world to record the conscious state of a person and it is celebrating its 40th anniversary in 2014.

The simple measurement was originally developed by University of Glasgow Professors Sir Graham Teasdale (pictured above) and Bryan Jennett while working in the Institute for Neurological Sciences at the Southern General Hospital in 1974.

The GCS then progressively became an integral part of clinical practice and research across the world. A recent review in The Lancet found that the GCS is in use by neurosurgeons and other disciplines in more than 80 countries worldwide. The review also noted it was the most frequently quoted paper in clinical neurosurgery.

To celebrate the 40th anniversary, the University has organised a special event on 29th October 2014 at our Wolfson Medical School Building, sponsored by Digby Brown LLP. Professors Anna Dominiczak, Sir Michael Bond and Sir Graham Teasdale will host. If you are interested in attending the event please contact Laura Morton using the contact details below.

Further information

• The Glasgow Coma Scale
  www.glasgowcomascale.org
• 40th anniversary event
  Laura Morton
  Medical Development Officer
  T: +44 (0)141 330 3878
  E: laura.morton@glasgow.ac.uk
Thanks to all our donors

Thanks to all those who made gifts to the Medical Fund from 1 April to 31 August 2014.

Arthritis
• Noted
  • In memory of Alexander and Sherna Simpson

Cancer: Brain
• Noted
  • Lesley A Walker

Cancer: General
• Noted
  • Muriel and Gordon Bennett

Diabetes
• Bronze
  • One anonymous donation

General Medical Fund
• Major
  • The Estate of Mrs Catriona McIver Gorton
• Gold
  • Dr Moira Fordyce†
  • 1963 Beta Club
  • Stewart and Margaret Douglas
  • Hugh B McKee
• Bronze
  • Two anonymous donations
  • Dr Donald J Angus
  • In Loving Memories of my Mother Mrs Helen Martin Nairn Gow
  • Tom Russell - 1968-1975
  • Duncan J Stewart
• Noted
  • Two anonymous donations
  • For those no longer with us
  • Norman A Hogg
  • Dr Both I Juddung
  • David C Macartney

Heart Disease: Heart Attack & Stroke
• Major
  • The Estate of Stephen Johnston

Immune & Inflammatory Diseases
• Major
  • Dr Rhona Reid Charitable Trust

Medical Education
• Gold
  • Dr and Mrs L Alec Benedict

Mental Health
• Bronze
  • Two anonymous donations
  • Dr Alastair C Glen
  • For Mary and David Peatte

Diseases of the Nervous System
• Silver
  • Dr Ian Fingland
  • Dr J Bryson Hamilton
• Bronze
  • Dr Kenneth W Hunter
  • Dr Robert Milne

Paediatrics & Maternal Health
• Bronze
  • Dr Aisladair Fyfe

Beaton Pebble Appeal
• Major
  • Dumbarton Kilwinning Lodge
  • No 18
• Platinum
  • Iris E Edgar
  • In Memory of my parents and in gratitude for the benefits and privileges I have as a result of being a graduate of Glasgow University (MB,ChB 1960)
• Gold
  • Assist Zip Slide 2014
  • Dr Hellen S Conn
  • David Manson
  • Owen’s Entourage
  • Catherine Sweeney

Silver
• Two anonymous donations
  • Lauren Braidwood
  • In memory of Salma and Aslam Chaudhri
  • Miss Margaret H Drysdale
  • Allie Egan
  • Drs Ian and Margaret Fingland
  • In memory of Donald Finlay MacLeod
  • In memory of our dear friend Kate Martin from “Not another coffee morning” Ardrishaig
  • In Memory of Neil McFarlane
  • Iain McGlashan
  • In memory of John Reilly 01/15/1921 - 25/12/1999
  • Alma & Leslie Wolston Charitable Trust
• Bronze
  • Four anonymous donations
  • Dr Fiona L Brown
  • Dr John Brown 1961-69
  • Jennifer Burns
  • Robert Smith & Sandi Canavan
  • Chivas Brothers
  • In Memory of Dr Maureen Cowell
  • Dr David M Hawley
  • Dr Martin Horner
  • In Memory of Pat and Vera Dunlop
  • Jean M Kerr
  • Alison Lannigan
  • Thomas McCallum
  • James McLaughlin
  • James McMillan
  • In memory of Jean E Morton
  • Mandy Morton
  • Money raised through donations from friends and family at the funeral for Catriona Neath
  • Billy Nicol
  • Patricia A Smith
  • In loving memory of Fiona Speirs
  • Jamie Walker
  • The Iris and Alexander Walker Naddell Charitable Trust
• Noted
  • Five anonymous donations
  • Margaret J Bennie
  • Simone Bowie
  • George Cazdow
  • Main Campbell

Diabetes
• Bronze
  • One anonymous donation

General Medical Fund
• Major
  • The Estate of Mrs Catriona McIver Gorton
• Gold
  • Dr Moira Fordyce†
  • 1963 Beta Club
  • Stewart and Margaret Douglas
  • Hugh B McKee
• Bronze
  • Two anonymous donations
  • Dr Donald J Angus
  • In Loving Memories of my Mother Mrs Helen Martin Nairn Gow
  • Tom Russell - 1968-1975
  • Duncan J Stewart
• Noted
  • Two anonymous donations
  • For those no longer with us
  • Norman A Hogg
  • Dr Both I Juddung
  • David C Macartney

Heart Disease: Heart Attack & Stroke
• Major
  • The Estate of Stephen Johnston

Immune & Inflammatory Diseases
• Major
  • Dr Rhona Reid Charitable Trust

Medical Education
• Gold
  • Dr and Mrs L Alec Benedict

Mental Health
• Bronze
  • Two anonymous donations
  • Dr Alastair C Glen
  • For Mary and David Peatte

Diseases of the Nervous System
• Silver
  • Dr Ian Fingland
  • Dr J Bryson Hamilton
• Bronze
  • Dr Kenneth W Hunter
  • Dr Robert Milne

Paediatrics & Maternal Health
• Bronze
  • Dr Aisladair Fyfe

Beaton Pebble Appeal
• Major
  • Dumbarton Kilwinning Lodge
  • No 18
• Platinum
  • Iris E Edgar
  • In Memory of my parents and in gratitude for the benefits and privileges I have as a result of being a graduate of Glasgow University (MB,ChB 1960)
• Gold
  • Assist Zip Slide 2014
  • Dr Hellen S Conn
  • David Manson
  • Owen’s Entourage
  • Catherine Sweeney

Silver
• Two anonymous donations
  • Lauren Braidwood
  • In memory of Salma and Aslam Chaudhri
  • Miss Margaret H Drysdale
  • Allie Egan
  • Drs Ian and Margaret Fingland
  • In memory of Donald Finlay MacLeod
  • In memory of our dear friend Kate Martin from “Not another coffee morning” Ardrishaig
  • In Memory of Neil McFarlane
  • Iain McGlashan
  • In memory of John Reilly 01/15/1921 - 25/12/1999
  • Alma & Leslie Wolston Charitable Trust
• Bronze
  • Four anonymous donations
  • Dr Fiona L Brown
  • Dr John Brown 1961-69
  • Jennifer Burns
  • Robert Smith & Sandi Canavan
  • Chivas Brothers
  • In Memory of Dr Maureen Cowell
  • Dr David M Hawley
  • Dr Martin Horner
  • In Memory of Pat and Vera Dunlop
  • Jean M Kerr
  • Alison Lannigan
  • Thomas McCallum
  • James McLaughlin
  • James McMillan
  • In memory of Jean E Morton
  • Mandy Morton
  • Money raised through donations from friends and family at the funeral for Catriona Neath
  • Billy Nicol
  • Patricia A Smith
  • In loving memory of Fiona Speirs
  • Jamie Walker
  • The Iris and Alexander Walker Naddell Charitable Trust
• Noted
  • Five anonymous donations
  • Margaret J Bennie
  • Simone Bowie
  • George Cazdow
  • Main Campbell

Support a tradition of medical excellence

By making a gift to the Medical Fund you will be supporting future generations of doctors, and contributing to the vital work of our researchers.

To find out more
• Visit our website at www.glasgow.ac.uk/givingtoglascgow
• or contact Laura Morton on E: laura.morton@glasgow.ac.uk T: +44 (0) 141 330 3878.

Support a tradition of medical excellence

By making a gift to the Medical Fund you will be supporting future generations of doctors, and contributing to the vital work of our researchers.

To find out more
• Visit our website at www.glasgow.ac.uk/givingtoglascgow
• or contact Laura Morton on E: laura.morton@glasgow.ac.uk T: +44 (0) 141 330 3878.
1. Your details

<table>
<thead>
<tr>
<th>Title</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name</td>
<td>Surname</td>
</tr>
<tr>
<td>Telephone No.</td>
<td>General Council / Matric No. (if a UoG graduate)</td>
</tr>
<tr>
<td>Email</td>
<td>Year of Graduation (if a UoG graduate)</td>
</tr>
</tbody>
</table>

2. I wish to support the University of Glasgow by giving to:

- [ ] The Beatson Pebble Appeal
- [ ] The Medical Fund (Please specify theme)  

Making a gift in your will

- [ ] Please send me information about making a gift in my will

3. Making your gift

Making a single gift

I would like to make a single gift to the University of Glasgow Trust of £

- [ ] I enclose a cheque / charity voucher made payable to The University of Glasgow Trust
- [ ] Please debit my:  
  - Visa
  - Visa Debit
  - Mastercard
  - Maestro

Name on card

<table>
<thead>
<tr>
<th>Card No.</th>
<th>Start Date</th>
<th>Expiry Date</th>
<th>Security Code</th>
<th>Issue No.</th>
</tr>
</thead>
</table>

Making a regular gift by direct debit

I would like to make a regular gift to the University of Glasgow Trust of £

- [ ] Monthly
- [ ] Quarterly
- [ ] Annually

I would like the payments to be taken from my account on the 1st or 15th of (month). Please allow one month from today’s date.

4. Instruction to your bank or building society to pay by direct debit

To: The Manager,  
Address  

<table>
<thead>
<tr>
<th>Account Name(s)</th>
<th>Sort Code</th>
<th>Account No.</th>
<th>Reference No. (for office use)</th>
</tr>
</thead>
</table>

Signed  
Date

© University of Glasgow 2014. The University of Glasgow, charity no. SC004401. University of Glasgow Trust, charity no. SC008303.