

# Annual report and accounts

for year ended 31 December 2015

Company number: 323575

Registered charity: 211585

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This is the Trustees' Annual Report and Accounts for the year ended 31 December 2015 for The Physiological Society. In preparing this report, the Trustees have complied with the Charities Act 2011, the Companies Act 2006, the Memorandum and Articles of Association, and Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2015).

The Physiological Society was incorporated by guarantee on 27 January 1937 under number 323575. It has no share capital and is registered with the Charity Commission for England and Wales under number 211585. The liability of each Member is limited to £1.

The governing document is the Articles of Association of the Company and the members of the Council of Trustees are the Directors of the Company.

'The Physiological Society' and the Physiological Society logo are trademarks belonging to The Physiological Society and are registered in the UK and in the EU respectively.

# 1 Report of the Trustees

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The Trustees are pleased to submit this report and the financial statements for the year to 31 December 2015. Further information about The Physiological Society's activities is given in a separate document, the *Annual Review*, which can be obtained from the registered office or online from [www.physoc.org](http://www.physoc.org).

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## 1.1 Charitable objects of The Society

The objects of The Physiological Society, also referred to in this report as 'The Society' as set out in its Articles of Association, are: 'to promote for the benefit of the public the advancement of Physiology, and facilitate the intercourse of Physiologists, both at home and abroad, and thereby contribute to the progress and understanding of biomedical and related sciences and the detection, prevention and treatment of disease, disability and malfunction of physical processes in all forms of life.'

The major activities we undertake to achieve our charitable objects include publishing three journals, supporting a number of scientific meetings annually, and awarding grants to allow Members to travel to scientific meetings and to carry out research collaborations. We also run events for the general public on how physiology relates to everyday life, and for students who may be considering physiology as a career. Interaction with outside bodies is encouraged through representation on various councils and committees, and active membership of the Royal Society of Biology and the International Union of Physiological Sciences

## 1.2 Message from our President and our Interim CEO

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There has been much to celebrate over the last year.

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There has been much to celebrate over the last year. The Society has hosted a full roster of scientific meetings, has pursued a lively programme of education, outreach and policy activities, has developed important collaborations with scientific partners, and has continued to oversee the publication of its academic journals, quarterly magazine and monthly newsletters.

*The Journal of Physiology* reached an impact factor of over 5.0 for just the second time this decade. Enormous credit must go to The Journal's outgoing Editor-in-Chief, David Paterson, and we wish him well for the future. Our open-access journal, *Physiological Reports*, published jointly with the American Physiological Society (APS), continues to see growth in the number of submissions. This scientific collaboration with our American colleagues is enjoying a further boost this year, as our main annual meeting in 2016 (Physiology 2016, in Dublin) is jointly hosted with APS.

Another collaboration, this time with our colleagues in Europe, is also on the horizon. We are delighted to announce a sequence of pan-European, scientific meetings (Europhysiology), to be held biennially with our Scandinavian and German sister societies. The sequence is to commence in 2018, with an inaugural meeting in London. In addition, in 2017, Council has agreed to adopt measures to support the Congress of IUPS (International Union of Physiological Sciences), being held in early August, in Brazil. Closer to home, The Society is enhancing its links with strategic partners, not least the Royal Society of Biology, whom we congratulate on receiving its Royal title. All of the above work is reinforcing Council's determination that The Society be active and outward-looking.

Our Society has been recognised by government for highlighting the importance of reward and recognition in teaching in Higher Education. We published a booklet (*Recognising Teachers in the Life Sciences*), and fielded representatives at events during the Labour and Conservative party conferences. The importance of The Society's public activity is highlighted by a comprehensive internal report, *The Health of Physiology (HoP)* to be launched at Physiology 2016. *HoP* reviews the current standing of Physiology, and outlines what we should be aiming for in future ventures. The report is also intended to encourage funding agencies, other learned societies and government to recognise Physiology as an essential discipline in their strategic planning.

On the membership front, The Society reached 3,500 members for the first time in its history, and this upward trend is continuing. The Society has also been celebrating its women Physiologists. Just over 100 years ago, in January 1915, The Society decided to admit women as Members. To honour this occasion, a century later, Council commissioned a series of events and initiatives. We are now pleased to announce that The Society is honouring Florence Buchanan and the five other original women members, with a permanent commemoration at Hodgkin Huxley House. The ongoing commitment to diversity, equality and inclusion has produced additional innovations. Firstly, a minimum 33% female speaker target for every meeting has been agreed by Council, with an ultimate aspiration of gender parity. Secondly, bearing in mind the broad issues of diversity, unconscious bias training is to become mandatory for all new Trustees and staff.

Effective delivery of our charitable activities requires good governance and good infrastructure. The financial investment in Hodgkin Huxley House supports The Society in the long-term, not only by furnishing premises for its work, but also by providing a buffer against an uncertain investment horizon. In addition, a financial 'reserves policy' has been formulated, to address current and future beneficiaries. Meanwhile, the proposed governance changes, to be ratified at this year's

AGM, will improve internal decision-making and expand Members' rights. Reviewing and re-designing our governance has been an onerous task, but we now look forward to sharing the benefits.

So there is much to celebrate. And with celebration come sincere thanks for the unstinting hard work and generosity of The Society's members, Trustees, volunteers and, as always, our skilled and dedicated staff. Notable thanks are given to Dr Philip Wright, our former CEO, who did much to establish the solid foundations, upon which we are now building. Thanks also to David Eisner, our Deputy President, who will be taking over as President in August 2016, ensuring that The Society is in safe hands. This is, therefore, the last report that one of us, Richard Vaughan-Jones, will be filing. As outgoing President, I would like to give special thanks to Casey Early, the interim CEO and Finance Director, for his loyal, efficient and attentive service, particularly over much of the past year.

We both look forward to a busy programme ahead. The infrastructure and practices of The Society have received great attention in recent times. The Society is now turning its full attention to its members, its scientific neighbours, and the public, to ensure a successful and healthy future for Physiology.

Richard Vaughan-Jones, President

Casey Early, Interim CEO

## 1.3 Treasurer's statement

The principal funding sources of The Society in the year were its publishing income (£3,315,000), events income (£108,000), membership subscriptions (£122,000), investments (£143,000) and income generated by Hodgkin Huxley House (£104,000).

Charitable expenditure of £3,986,000 was incurred during 2015, and has supported the objects of The Society as set out in the Statement of Financial Activities on page 32 of this report.

Publishing income, which accounts for 87% of The Society's total income, showed a modest increase in the year. Membership subscriptions were flat. Investment income fell by 5% and events income fell by 28%. The fall in sundry income largely reflects the fact that in 2014, The Society received a generous one-off £147,000 donation from the Bayliss and Starling Society.

Fund investments yielded disappointing net gains of £2,000 (2014: £95,000) and contributed to an overall fund balance for The Society of £11,739,000.

The Society held freely available income funds of £7,514,000 at the year end, which represents an operating capacity of 23 months at current levels of expenditure. These reserves are held to ensure the long-term viability of The Society, particularly in the event of a serious decline in its publishing income. Currently, £6,831,000 is held in investments to provide an income stream to support the charitable activities of The Society for the longer term. To provide for security of our activities in perpetuity, a target level of reserves falls in the range of £11-12,000,000. This gap is projected to be bridged by 2024 with capital appreciation of The Society's investment fund.

The Society held £125,000 in restricted funds at the year end. There were no designated funds.

The Society's investment policy, which takes into account the underlying investment in Hodgkin Huxley House, is to achieve long term capital growth which can ultimately provide a significant income stream, regardless of fluctuations in our publishing income, to support key charitable activities. Up to £200,000 (from a mix of capital and income) is withdrawn on an annual basis. The long term investment target is inflation, as measured by CPI plus 4%. A composite benchmark, across four asset classes, is used in the quarterly valuations. In 2015, the managed portfolio returned 1.8% against the composite benchmark return of 2.2%. The inflation benchmark was 4.2%. Since its inception in April 2013, the fund has grown by 11.7% (inflation target: 13.9%).

The Society invests in collective investments (unit and investment trusts). This is designed to give a broad level of diversification across all major asset classes. The managers have general discretion over the asset allocation and selection of investments within agreed investment parameters. The Society's investment policy was reviewed in 2015 and a specific restriction on property was removed allowing a position of around 3% in commercial property funds.

Looking back, the 2015 financial year presented a challenging and volatile investment climate. This put pressure on the ability of our fund portfolio combined with other sources of revenue, principally *The Journal of Physiology*, to generate an income stream of sufficient value to fully support the costs of delivering all of our charitable objectives. Thus as in 2014, The Society ran a deficit budget and this position, if continued in the long term, will potentially undermine our future prosperity. The new reserves policy, implemented in 2014, has the long term objective of facilitating a break-even annual budget to mitigate this risk. Nonetheless, it is incumbent upon The Society to consider its current cost base against income streams and potentially to develop future additional income sources. To this end, a review of the extent to which Hodgkin Huxley House, itself a substantial and accruing investment asset, supports The Society's activities via an

income stream is under consideration for the forthcoming financial year. The Society continues to seek areas for cost savings whilst protecting the work of the committee, supporting our memberships and delivering of our many and varied valuable charitable activities.

This year has been an exceptional year with some key staff changes in HHH. The diligence of all the members of Finance Committee and especially the Finance Director, Casey Early, currently acting as The Society's Finance Director and the CEO, is particularly acknowledged. This year, we welcomed two new members to Finance Committee – Professor Lucia Sivilotti and Professor Frank Sengpiel and bade farewell to Professor Prem Kumar. From a financial perspective, The Society is in an enviable position but keeping in mind “summer’s lease hath all too short a date” there is no room for future complacency.

Anne King, Honorary Treasurer



## 1.4 Public benefit statement

Physiology is the science of how humans and other animals function in an integrated way and is the basis for many biological and clinical sciences. The Society supports research to advance the understanding of physiology and disease, as well as education and public engagement to develop an informed society.

The charitable purposes of The Society are to support and sustain the discipline of physiology through the advancement of science and education and thereby the advancement of health.

The benefits provided by The Society are in the form of the publication of scientific journals; the holding of meetings and conferences to disseminate advances in physiology; the provision of educational resources to support the understanding of, and encourage the study of, physiology; the provision of grants to support attendance at scientific meetings; and the promotion of the importance of physiology to the public, through free public lectures and other outreach activities to provide an insight into how basic research translates directly to improving human health. We support our Members who conduct research, providing that this is within the principles of UK and European legislation.

The beneficiaries of The Society include those involved in research, teaching or studying physiology in universities, industry, colleges and schools. Members of the public who wish to learn more about physiology are beneficiaries and all will ultimately benefit from physiological advances that promote health and treat disease. Further beneficiaries are other charities promoting science, education and health.

Some benefits are restricted to Members of The Society who are scientists or trainee scientists. These benefits (e.g. grants to present work at scientific meetings or provide access to specialist training courses) would not be directly relevant to the public. Other benefits such as educational materials, scientific publications and outreach events are available to all.

Provisions are in place for those on low incomes. Membership and registration fees are reduced or waived for students and for those from developing countries. Educational materials and our magazine are available to all free of charge. Our journals are offered at a reduced price in developing countries and online access to articles is freely available to all after 12 months from their date of publication. Publishing work in our journals is free to authors, unless they want to make their article freely available immediately on publication (open access), in which case an article-processing charge will apply.

Private benefits are incidental and mainly consist of prizes for exceptional scientific or educational achievements.

In reviewing The Society's performance during the year, Council has had regard to the guidance on public benefit issued by the Charity Commission.

## 1.5 Structure, governance and management

### Council of Trustees

The Trustees are legally responsible for the overall governance, management and policies of The Society, ensuring that the charitable objects for which it has been set up are met. The Trustees are also the Directors of the company. The Council of Trustees meets at least three times a year. Elections to the Council take place each year and any Member of The Society is eligible to stand. The normal length of service on Council is four years. The current size of the Council is 18, including two Affiliate representatives. Meetings of the Council are chaired by the President. The Governance Review Task Force, which was established in 2013, concluded its review of The Society's governance arrangements. The results of this extensive review, including proposed changes to the governing documents, will be presented to the membership at the 2016 Annual General Meeting.

### Trustees' responsibilities

The Trustees, as Directors of the charitable company, are responsible for preparing the Trustees' Report and the financial statements in accordance with applicable law and regulations.

Company law requires the Trustees to prepare financial statements for each financial year. Under that law, the Trustees have elected to prepare the financial statements in accordance with United Kingdom Generally Accepted Accounting Practice (United Kingdom Accounting Standards and applicable law). Under company law, the Trustees must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of The Society and the income and expenditure for that year. In preparing these financial statements, the Trustees are required to:

- select suitable accounting policies and then apply them consistently
- observe the methods and principles in the Charities SORP
- make judgments and accounting estimates that are reasonable and prudent
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the company will continue in business
- state whether applicable UK Accounting Standards have been followed, subject to any material departures disclosed and explained in the financial statements

The Trustees are responsible for keeping adequate accounting records that are sufficient to show and explain The Society's transactions and disclose with reasonable accuracy at any time the financial position of The Society and enable them to ensure that the financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of The Society and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

The Trustees have confirmed that as far as they are aware at the time the report is approved, there is no relevant audit information of which The Society's auditors are unaware. They further have taken all steps necessary to make themselves aware of any relevant audit information and to establish that The Society's auditors are aware of that information.

### Trustee induction and training

On appointment, each Trustee is sent a secure link to The Society's Trustee induction portal, which includes various information and resources such as the Charity Commission leaflet CC3, the governing documents and financial information. All new Trustees are required to attend a Trustee

Training course, which is either external or part of an induction day at The Society's registered office. In 2015, a total of 16 Trustees attended five internal and external training courses covering Trustee responsibilities, finance and also investments.

Trustees have a legal duty to avoid conflicts of interest so that they can focus exclusively on the best interests of The Society. If and when any conflicts of interest arise, Trustees are required to make a declaration to be recorded on The Society's Register of Interests.

### Executive Committee

The Executive Committee works through the Chief Executive to oversee the day-to-day operations of The Society and meets frequently throughout the year. Members of the Executive Committee are drawn from, and elected by, the Council. The Council can delegate any of its powers to the Executive Committee as it sees fit. The normal term of office on the Executive Committee is four years.

The Executive Committee in 2015 comprised:

- Richard Vaughan-Jones, President
- David Eisner, Deputy President
- Anne King, Honorary Treasurer
- Ken O'Halloran, Meetings Secretary
- Blair Grubb, Chair, Education & Outreach Committee
- Rachel Tribe, Chair, Membership & Grants Committee (invited member)
- Mary Morrell, Chair, Policy Committee
- Prem Kumar, Chair, Publications Committee

### Committees

The Council also has committees and working groups to which it delegates powers, and these groups report back to the Council. Membership of committees is drawn from the Council but also includes other invited members, who may be Members of The Society or external. Committees are aligned with the various functional groups in the London office. The main committees in 2015 were Education and Outreach, Finance, Meetings, Membership and Grants, Nominations, Policy, Publications, and Remuneration.

The Finance Committee acts as a reviewing mechanism of all strategic and statutory financial aspects of The Society. It is delegated by the Council to oversee all financial aspects to ensure The Society's short and long-term ability to achieve its charitable objectives.

The Nominations Committee seeks and assesses all nominations for the President, Honorary Membership and membership of the Executive Committee. It comprises the President, the Deputy President and two other Trustees.

### Management and administration

The Society has approximately 30 staff and operates out of Hodgkin Huxley House, which was acquired in 2012. The Council delegates responsibility for day-to-day management of The Society to the Chief Executive, who reports on performance against the strategic and operational plans approved by the Trustees. The Chief Executive is supported by a Senior Management Team consisting of three Directors: Marketing, Finance and Publications.

### Key management personnel remuneration

The Trustees consider the board of Trustees and the Chief Executive as comprising the key management personnel of The Society in charge of directing and controlling The Society and running and operating The Society on a day to day basis. All Trustees give of their time freely and no Trustee remuneration was paid in the year. Details of Trustee expenses and related party transactions are disclosed in note 7.7 to the accounts.

Trustees are required to disclose all relevant interests and register them with the Company Secretary and in accordance with The Society's policy withdraw from decisions where a conflict of interest arises.

The pay of the Chief Executive is reviewed annually by the Remuneration Committee, which comprise three Trustees and one external member, and normally increased in accordance with average earnings to reflect a cost of living adjustment. In view of the nature of The Society, the remuneration is also bench-marked with similar charities or with reference to sector reports (e.g. Science Council) to ensure that the remuneration set is fair and not out of line with that generally paid for similar roles.

### Annual General Meeting

The Society's Annual General Meeting, open to all Members, was held on Tuesday 7 July 2015 in Cardiff during Physiology 2015. Minutes of the meeting are available on The Society's website.

### Risk management

The Trustees have given consideration to The Society's major risks to achieving its strategic direction and satisfied themselves that systems or procedures are established in order to mitigate those risks. The major risks were considered to be the dependency on publications income, reputational and quality risks relating to *The Journal of Physiology*, and risks associated with Trustee board selection and composition. A full review of The Society's risk management process including the management of operational and strategic commenced during the year.

### Volunteers

We could not achieve our charitable objectives without the commitment and hard work of our Members (and some non-members), many of whom give freely of their time to act as journal editors, committee members and volunteers to support our events and activities. The Society wishes to thank all those who have supported it over the last year.

## 1.6 Publications

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In 2015, the journals stepped up measures to raise standards in both publication ethics and animal-experimentation ethics. Furthermore, an important new challenge faced us in ensuring that the results of experiments reported in the journals are reproducible.

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Over the past 10 years most journals have tightened up their policing of publication ethics, in part because some types of misconduct (plagiarism, figure manipulation) have become easier to perpetrate (and often easier to detect) since journal digitization. Research institutions, journals and societies have worked hard to educate scientists in publication ethics.

Despite this, a less-than-welcome feature of 2015 for the journals was dealing with some thorny ethics cases, involving both conduct of authors and treatment of experimental animals. The profound knowledge of The Society's Publication Ethic Subcommittee was much appreciated and we are also grateful to the journals' animal ethics editors for all their work. A new measure the journals took in 2015 was to introduce spot checks for figure manipulation in accepted papers.

*The Journal of Physiology (JP)* and *Experimental Physiology (EP)* also revised their policy on animal ethics, maintaining the very high standard while making it easier for non-UK authors to ensure that they comply. The new policy is set out in an editorial by David Grundy, published in both journals in June. Because of the American Physiological Society (APS) collaboration, *Physiological Reports (PR)* has a slightly different but similarly exacting policy.

Over the past year, journals (and science as a whole) have become increasingly concerned by a lack of reproducibility in the results of experiments. A warning flag was first raised in a 2005 PLOS Medicine paper by John Ioannidis with the provocative title 'Why most published research findings are false', but in 2015 the issue really came to prominence. The Society's journals should be in the vanguard of efforts to improve reproducibility, and will be running a session on this topic at Physiology 2016, Dublin.

The journal publishing zeitgeist encourages the use of persistent digital identifiers: FundRef (for research funders), DOI/CrossRef (for journal articles and references) and Ringgold (for institutions). *JP* and *EP* have initiated a project to make ORCID (Open Researcher and Contributor ID) identifiers mandatory for corresponding authors of submitted papers. One of the benefits of ORCID is the disambiguation of authors with the same name. Over 50 per cent of the population of South Korea has the surname Kim, Park or Lee.

The Society's journals were among the first to adopt Wiley's new 'hub' journal pages. Our hub page has a much cleaner, modern feel, is easier to navigate and has a 'Topic browse' feature that finds content from all three of our journals so users can filter content that is most relevant to them.

### *The Journal of Physiology*

*JP* continues to cover all areas of physiology, from molecular and cellular to whole organism studies. Submissions in 2015 exceeded the previous two years' totals with over 1500 submissions received across all article types and subject areas. Similar to past years, neuroscience forms a large proportion (over 40%) of research submissions. All subject areas saw an increase in submissions compared to 2014.

In 2015, we advertised for a new Editor-in-Chief as David Paterson's successful term was to end in March 2016. We received top-quality applications and were pleased to appoint Kim Barrett to this important position. Kim has many years' experience on the *JP* Board and we are confident that she will be able to use this knowledge to maintain our high standards and further drive the development of *JP* during her term.

The acceptance rate of *JP* remains around the 25% mark for original research papers. We referred about 30% of rejected papers to *PR*, and about 15% of papers were rejected outright (with no opportunity for revision) following peer review. *JP* continues to be a truly international journal, with submissions by corresponding authors from over 50 countries in 2015. The largest proportion of papers came from the USA (23%). Papers from the UK represent 11% of submissions. Places that saw an increase in the overall percentage of submissions in 2015 compared to 2014 were Australia & New Zealand and Canada. Several new appointments have been made to the Editorial Board, and in July 2015, we warmly welcomed Jaideep Bains and Peking Fong to the team of Senior Editors.

We continue to promote *JP* to a wide audience via social media and press releases, recently exceeding the 10,000 follower mark on Twitter and issuing six press releases featuring *JP* research. There were 1,952,194 full text downloads made in 2015.

Virtual issues were produced around key events in the year, usually international conferences, and 'Ageing and Degeneration', The Society's theme for 2015. *JP* also produced a Virtual Issue celebrating the work of female scientists. The collection highlights some of the most influential and important papers authored by women since it was first published in 1878.

*JP* published a number of special issues and sets of symposium papers, and we also have an impressive pipeline of invited content for 2016. In 2015, over half the papers were original research articles. Again, we have exceeded expectations by managing to commission a greater number of review articles, with 117 accepted in 2015.

In mid-2015, we introduced a requirement that all invited reviews should include an abstract figure that summarises the overall topic and content of the paper. These (and any other suitable figures in the paper) are being redrawn by a professional illustrator. Feedback so far has been excellent and we are hoping that the figures will attract more readers to the reviews and help boost citation rates. It has quickly become a service valued by both authors and readers.

Perhaps the most significant achievement in 2015 was the increase in Impact Factor to 5.037, the first time that *JP* has exceeded the important threshold of 5 in recent years. Although this metric doesn't adequately reflect *JP*'s overall successes, it is still important in terms of attracting authors who may only want to (or be allowed to) submit to a journal with an Impact Factor of over 5. *JP* also remained in the top 10 of all other citation metrics and is still the most highly cited journal in the Physiology category.

We have now had over a full year of using the new submission system. Feedback so far has been positive, and we hope that our timelines for submission to first decision will remain short, and even improve, over the coming years as we refine our processes.

Having a stand in the exhibition halls at major international events gives us the opportunity to talk to new and existing authors, referees and editors. We also showcase information and articles that represent our interesting and varied history, including the Nobel Prize winning papers that we have published over the years. Conferences attended in 2015 included the Biophysical Society meeting, Experimental Biology, the Heart Rhythm Society meeting, Physiology 2015 and the Society for Neuroscience's annual conference. *JP* also had a presence at other meetings attended or organised by Board members.

### *JP's* 2015 key achievements

- Maintained position as the top-cited journal in ISI's Physiology category
- 48,946 citations in 2014
- Ranked joint first in Cited Half-life (>10.0)
- Ranked second in Eigenfactor Score (0.05935)
- Ranked fifth in number of articles published (346)
- Ranked fifth in Impact Factor (5.037)
- Ranked sixth in Immediacy Index (1.368)
- Ranked seventh in Article Influence (1.858)
- Ranked ninth in 5 year Impact Factor (5.113)
- Sustained media presence – Twitter followers topped 10,000 for the first time
- Significant increase in the number of reviews published
- Substantial and growing pipeline of invited content
- Professional figure redrawing service introduced for invited reviews

### *JP's* objectives for 2016

- Continue to have a presence at major international meetings.
- Sponsor key symposia throughout the year
- Increase the number of Special Issues published
- Promote the theme of 'Elite Performance'
- Increase number of submissions from underrepresented areas such as renal and endocrine
- Reduce the time from submission to first decision
- Reduce the acceptance rate to our target of 20%

### *Experimental Physiology*

*EP* publishes high quality, original, physiological research papers that give novel insights into fundamental homeostatic and adaptive responses in health and further our knowledge of pathophysiological mechanisms in diseases.

In 2015 the journal's scope was expanded to include methodological papers reporting important new developments in physiological techniques that could lead to significant new insights, and papers that observe a significant new physiological behaviour or phenomenon, which has the potential to alter the understanding of that field, but without having yet identified the mechanisms involved. The main subject areas are human, exercise, cardiovascular, muscle, vascular and respiratory physiology.



Research submissions to *EP* remained steady at around 380, a period of consolidation after the remarkable growth seen over the previous decade. China became the highest ranked country for submissions by volume for the first time, with 22% of total submissions, although only 8% of these were accepted. The US, the UK, Brazil, Japan, Australia and Canada filled the other top positions.

The average time from submission to first decision was 28 days and the average from acceptance to online publication of the final version was 47 days. The acceptance rate for research papers was 28%.

The 'cascade' to PR worked well, with 68 rejected manuscripts referred to PR as an alternative route to publication. Of these papers, 45 were referred with the reviewers' reports following peer review for *EP*.

The number of Online Open articles in *EP* increased to nine (from seven in 2014). It appears that the new RCUK policy has not had a dramatic effect overall, although of course only a small number of submissions are from the UK.

*EP* supports open data and authors are encouraged to provide supporting data for publication. To raise awareness of the issues surrounding openness and reproducibility, Editor-in-Chief Paul McLoughlin chaired a workshop at the Physiology 2015 meeting entitled 'Can you reproduce your data?'

To raise the profile of the journal to potential contributors and generate good review content, symposia were sponsored at the following meetings: Experimental Biology, Physiology 2015, the European Congress of Sport Sciences and the ISN Forefronts symposium in Shenzhen.

The journal supported the centenary of women Society members by publishing a special issue in time for the Women's Centenary Event at Hodgkin Huxley House. The issue comprised review articles by eminent female physiologists who have received Society awards, providing an update on their research since receiving the award. *EP* also published a historical virtual issue of papers published by women authors from 1915 and from 2015, and a virtual issue of all the Joan Mott Lectures.

The 2014 Impact Factor was 2.669. Both the number of articles published and the total number of citations showed increases on the previous year. *EP* was ranked 33rd out of 83 journals included in the Physiology category. The number of full text downloads to *EP* articles in 2015 was 455,887.

Five press releases were issued for *EP* articles, across a diverse range of subjects, including chewing, prolonged sitting, bodybuilders, vitamin D metabolism and cystic fibrosis. These were picked up by a total of 655 media titles around the globe including The Huffington Post and Men's Health UK.

*EP* presented the first Inaugural Review Prize at Physiology 2015. The award will be annual and we are receiving a good number and standard of entrants. The Early Career Author Prize continues to attract plenty of attention. An email campaign raised further awareness of these prizes.



### EP's 2015 Key Achievements

- Women in Physiology Centenary special issue
- First Inaugural Review prize presented and article published at P15
- Initiation of new strategy to enhance reproducibility of Physiological data
- Publication of outstanding symposium reports selected at EB, ECCS, P15 and ISN

### EP's Objectives for 2016

- Appoint new Editor-in-Chief to start in October, succeeding Paul McLoughlin
- Review configuration of the Editorial Board to offer junior-senior progression
- Support The Society's annual theme of Biomedical Basis of Elite Performance
- Emphasise 'No charge' publication
- Chair session on Reproducibility with APS and Wiley at P16
- Develop new 'Replication study' article type
- Explore 'transparent' review process

### Physiological Reports

While all three Society journals offer gold Open Access (OA) and are compliant with most if not all funder OA mandates, *PR* is the standard bearer, publishing OA content exclusively.

*PR* is also distinctive in covering the whole waterfront of physiology, including translational and clinical research. A 2015 innovation was the introduction of Case Reports, which we hope will attract a new type of author as well as new readers. A typical Case Report might be co-authored by a trainee, a clinician and a physiologist. To jumpstart this new class of article, the publication charge (which would normally be \$1000) is being waived until Spring 2016.

The 'cascade' of articles initially submitted to the subscription journals of The Society and the APS continues to work well, providing an attractive route to rapid publication for papers deemed not quite novel enough for the other journals but still reporting sound science. We are delighted that in 2015 *Acta Physiologica*, the distinguished journal of the Scandinavian Physiological Society, joined the *PR* cascade scheme.

Promotion of *PR* highlighted its willingness to publish research replicating studies previously published and research in which the null hypothesis is confirmed. Both can make an important contribution to the scientific record, providing confirmation of reproducibility and reducing biases in the record. *PR* saw an impressive 6% increase in submissions in 2015.

### PR's 2015 Key Achievements

- Published 374 research articles in the year
- Introduced Case Reports, a new category of article
- Added *Acta Physiologica* to the 'cascade'
- Significantly increased submissions
- Called for replication studies and studies confirming the null hypothesis

### *PR's* Objectives for 2016

- Add further high-calibre physiology journals to the cascade scheme
- Qualify for coverage by ISI and Medline
- Increase the number of direct submissions
- Further raise profile through social media activities

## 1.7 Events

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2015 was the year of our Women's Centenary Membership of The Society, and also the year of Ageing and Degeneration. Throughout the year, our events' activities strongly supported this occasion and Theme.

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To mark 100 years of Women's Membership of The Society, we awarded all prize lectures to eminent women scientists, and hosted an H3 symposium, 'Celebrating 100 years of Women's Membership of The Physiological Society' in December. This event brought together a group of inspirational women to recognise and celebrate achievements, and to address present challenges for women in research, and to look to the future. The aim was to inspire the current and the next generation, and promote women in science.

H<sup>3</sup> symposia are held at Hodgkin Huxley House, the home of The Society, and these one-day focused events, put together by Members, have proved very popular. These events are livestreamed to increase the audience, and generate some real-time discussion via our social media channels.

'Translational Electrophysiology in Neuroscience' in September uniquely brought together key industrial and academic thought leaders to identify the 'state of the technological art' and recent advances in the science. Most importantly, it sought to compare human measurements with those from animal species to improve the translatability of the technology that will result in enhanced mechanistic understanding of disease and provide novel biomarkers. The event was supported by the Wellcome Trust and also the BBSRC.

'Physiology, Pathophysiology and Future Treatment Options for Diabetic Complications' in December presented the current understanding of the factors that contribute to the development of multiple diabetic complications, and discussed potential novel treatment options for such complications.

Physiology 2015, the flagship annual meeting of The Society, was held in July at the Motorpoint Arena in Cardiff. All Society Themes were represented, attracting 795 participants and 487 abstracts.

The conference was preceded by an Early Career Physiologists' Symposium, which was organised by members of Cardiff University. This included keynote lectures by Ole Petersen, Cardiff University, UK, and Alicja Józkowicz, Jagiellonian University, Poland; oral presentation sessions on neuronal signalling and cellular stress, and cell signalling in pathology, and a discussion on life outside the lab. In addition, the Young Life Scientists' Symposium was held at University College London on 13 November and attracted around 100 participants.

To complement The Society's Theme for the year of 'Ageing and Degeneration', a Topic Meeting, 'Ageing and Degeneration: A Physiological Perspective', was held in Edinburgh in April, augmented by a virtual issue on Ageing and Degeneration published by *The Journal of Physiology*.

Topic Meetings continue to have a broad appeal and unite members from all Theme areas around the subject, and enable collaborations with cognate societies and organisations. They also provide a platform for outreach and education initiatives, and virtual issues from Society publications enhance the experience. The overall aim for The Society's events portfolio, overseen by our Meetings Committee, will be to continue to ensure that they provide modern, cutting-edge and friendly environments to foster robust scientific exchange.

Prize lecture	Recipient
Annual Review Prize Lecture	From trafficking of neuronal voltage-gated calcium channels to neuropathic pain Annette Dolphin, University College London , UK
Annual Public Lecture	The science of laughter Sophie Scott Institute of Cognitive Neuroscience, University College London, UK
Bayliss-Starling Prize Lecture	Endogenous and exogenous regulation of transport function in the intestinal epithelium-building on the legacy of Bayliss and Starling Kim Barrett, University of California, San Diego, USA
GL Brown Prize Lecture *	Extreme Threats Environmental extremes: origins, consequences and amelioration Mike Tipton, University of Portsmouth, UK *
Joan Mott Prize Lecture	Intestinal absorption of sugars and peptides: from textbook to surprises Hannelore Daniel, Technische Universität München , Germany
Hodgkin Huxley Katz Prize Lecture	Calcium microdomains in cardiac myocytes Karin Sipido, KU Leuven, Belgium
Otto Hutter Teaching Prize Lecture	Engaging students and valuing teachers Judy Harris, University of Bristol, UK
Paton Prize Lecture	Maud, Nettie, Ghetel and George: the hidden women of the early Physiological Society Tilli Tansey, Queen Mary, University of London, UK

\*This was awarded for 2014/2015. The recipient for 2015/2016 is Molly Stevens, Imperial College London, UK.

3 Symposium	Organiser(s)	Statistics
Translational Electrophysiology in Neuroscience September 2015	John Isaac, Wellcome Trust, UK Andrew Randall, University of Bristol, UK Philip Wright, The Physiological Society, UK	Participants 52 Abstracts submitted N/A Overall participant rating 3.44
Celebrating 100 years of Women's Membership of The Physiological Society December 2015	Susan Wray, University of Liverpool, UK	Participants 50 Abstracts submitted N/A Overall participant rating N/A
Physiology, Pathophysiology and Future Treatment Options for Diabetic Complications December 2015	Lucy Donaldson, University of Nottingham, UK	Participants 33 Abstracts submitted 19 Overall participant rating 3.25

\*Rating scale 1 (lowest) to 4 (highest)

## 2015 Key Achievements

- Successful delivery of Physiology 2015
  - 795 participants
  - 487 abstracts
  - 26 symposia
  - 5 prize lectures
  - 1 sponsor
  - 19 exhibitors
  - 282 posters
  - 77 orals
  - Overall participant rating 2.81 (out of 3.0)
- Ageing and Degeneration: A Physiological Perspective 189 participants
  - 150 participants
  - 97 abstracts
  - 6 symposia
  - 1 plenary lecture
  - 2 exhibitors
  - 41 posters
  - Overall participant rating 2.89 (out of 3.0)
- Launch of H3 focused symposium programme (3 events)
  - 135 participants
  - 19 abstracts

## Objectives for 2016

- To ensure the continued and successful management and delivery of Physiology 2016, together with the American Physiological Society
- To deliver a meeting that will appeal to the physiological community and place the science, the societies and their journals at the forefront of the life sciences, both in the UK and internationally
- To achieve 1000 registered participants and secure 500 submitted abstracts
- To ensure the successful management and delivery of the Topic Meetings 'Biomedical Basis for Elite Performance' and 'Limits of Perception: Advances in Bio-Imaging'
- To continue to develop the smaller specialised H3 symposia at Hodgkin Huxley House and to deliver three such events in 2016
- To continue to explore possibilities of wider strategic cooperation and collaboration with cognate societies for mutually beneficial scientific events

## 1.8 Membership

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In 2015, we continued our member-led strategy to improve the member experience and review the benefits and services that The Society offers both in the UK and overseas.

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Our Membership has seen good growth during 2015, with our overall membership having increased by 8.3%, from 3287 Members to 3560. We continued to offer free membership for our Honorary and Retired Members, and to those on maternity leave or taking an extended career break. Undergraduate Membership is also now free and saw the most significant uplift from 321 to 494 members in this category. In addition, we reviewed and streamlined our entire membership fees structure.

During our annual cycle of Membership governance, 13 proposals for Honorary Membership were made, and after review by the Nominations Committee, we were pleased and honoured to welcome the following distinguished physiologists into The Society as Honorary Members:

- Professor Lynn Bindman
- Professor Stuart Cull-Candy
- Professor Judy Harris
- Professor Bridget Lumb
- Professor Edvard I Moser
- Professor May-Britt Moser
- Professor John O'Keefe
- Professor Ole Petersen
- Professor Richard W Tsien
- Professor Susan Wray

In April, with three Trustee vacancies available, we asked for nominations for the 2015 Council elections. Eight Members contested these elections in the summer, which saw a total of 143 voting individuals. There were also two Affiliate Representative vacancies available. Six Affiliates contested these elections, which saw a total of 51 voting individuals. The Annual General Meeting held during Physiology 2015, was also well attended, with 78 members present.

We were delighted to be invited to take part in the Ashridge Membership Engagement Survey, which measured Membership engagement amongst 36 membership organisations in the scientific and financial services sectors using a number of engagement metrics. We were very pleased to take fourth place for membership engagement.

In line with the support from the Members' Survey, a Fellowship Working Group was formed in July 2015 to develop a Fellowship proposition for Members. The proposed entry criteria were refined by the Membership & Grants Committee during their November meeting and will be put to the Membership at large during the 2016 Annual General Meeting during Physiology 2016 for a vote. Further details will be circulated to the Membership during early 2016.

In 2015 we were pleased to celebrate 100 years of women in The Society with a year-long programme of celebratory events and publications, including the July publication of Women physiologists: Centenary celebrations and beyond and a symposium held at Hodgkin Huxley House in December. On 23 January 1915, The Physiological Society formally decided to admit women as members. Although The Society, founded in 1876, had never explicitly excluded women, female members were not officially admitted until July 1915.

Travel grants remain the single most popular Member benefit, as well as being a critical element in The Society's achieving its charitable objective of supporting the interaction of scientists. In 2015, the number of travel grants awarded decreased slightly compared to the previous year. We awarded 399 travel grants, giving a total spend of £206,000; 140 of our grants went to support Members attending P15, 60 grants were awarded to support those attending Experimental Biology, with the remaining 199 spread across a wide variety of meetings, workshops and lab visits in the UK and abroad.

Thanks go to Professor Roger Thomas who took over the Editorship of Physiology News, our membership magazine, in February 2015 and also to the Editorial Board, for their contributions to its success. We also bid a fond farewell to Professor Michael Evans who concluded his term as Chair of the Membership & Grants Committee and welcomed Dr Rachel Tribe as the new Chair.

#### Membership numbers (as of 31 December)

	2013	2014	2015
Members	1,487	1,504	1,550
Retired Members	296	328	350
Honorary Members	66	72	80
Affiliates	951	1,011	1,031
Associates	16	51	55
Undergraduates	330	321	494
<b>Total</b>	<b>3,146</b>	<b>3,287</b>	<b>3,560</b>



### 2015 Key Achievements

- Membership growth of 8.3%, with 273 individuals joining The Society
- Came fourth place for membership engagement in the Ashridge Membership Engagement Survey out of 36 scientific and financial membership organisations
- Celebrated the centenary of women's admission as Members of The Society
- Established a small working party of members to develop a Fellowship category in to be voted upon at the AGM in 2016
- Awarded £206,000 in travel grants to physiologists to support the interaction of science

### Objectives for 2016

- To successfully deliver our new Membership database and web-portals to enhance the Member experience and streamline administrative processes
- To continue our review of the Departmental Representative network and establish regional hubs promoting the discipline
- To launch the new Fellowship category of membership
- To continue to review and improve Member benefits

## 1.9 Education and Outreach

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Ageing is not a process that many children concern themselves with, and older people generally don't want to be reminded about it. However, ageing is a big issue to policy makers and forms part of the national curriculum, so it was an important topic for Education and Outreach to address.

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With the help of our Members working at the cutting edge of ageing research, we engaged with The Society's 2015 theme, ensuring children and the public left our events, understanding ageing.

### Themed activities

In January, Society Member Steve Harridge showed a group of over 30 teachers how some of the physiological changes seen in astronauts might mirror those seen in ageing. Space flight proved a useful hook to draw teachers in and, from the lively debate that followed Steve's talk, we are confident that the teachers will return to the classroom with some exciting physiology research that can bring science up to date and back to life.

Throughout the year, we ran a number of public engagement events that focused on how we age and whether there are ways to slow the process down. At Brighton Science Festival, where we hosted 'Live longer, eat less', panellists Dr Matt Piper (University College London) and Professor Anthony Howell (University of Manchester), delved deeper into nutritional interventions such as the 5:2 diet and calorie restriction. At Edinburgh Science Festival we collaborated with the British Pharmacological Society to investigate anti-ageing pills claiming to stop the ageing process, and with The University of Edinburgh and Age UK to look at the Ageing Brain.

For both younger and older audiences we developed a travelling activity stand, The Age Experiments, which built on published work from researchers at The University of Stirling and the Centre for Cognitive Ageing and Cognitive Epidemiology at The University of Edinburgh, to look at some of the trends of ageing by measuring muscle strength, reaction time and memory retention. Participants plotted their results against their age and discussed with our volunteers some of the reasons behind the emerging patterns.

The stand was staffed by Member volunteers and made appearances at the national and regional Big Bang Fairs, Cheltenham Science Festival, Night at the Vet College and Queens Arcade shopping mall in Cardiff (alongside Physiology 2015). Members have also used the resources and activities in their own public engagement work. We would like to thank The University of Stirling and the Centre for Cognitive Ageing and Cognitive Epidemiology at The University of Edinburgh for their support in developing our themed activities.

2015 also marked 100 years of Women's Membership of The Physiological Society. To ensure we engaged the younger generation in efforts to mark this centenary, schools were invited to take part in a poster competition focusing on the achievements of women who've won a Nobel Prize in Physiology or Medicine. Seven posters made the shortlist and were displayed at Physiology 2015, where delegates voted for a winning poster. Elsie Moore, a 15 year-old student from The Thomas Hardy School in Dorchester, won with a poster summarising the work of Christiane Nüsslein-Volhard. Amongst other prizes she received, was a personal message of congratulations from Christiane herself.

## Collaborations

Outside of our themed activities, we continued to take part in annual events that are gaining in popularity, helping to fly the physiology flag among a wider audience.

In October, we joined efforts to promote the biological sciences as part of Biology Week – a national event initiated by the Royal Society of Biology and incorporating Physiology Friday. At The Society, we ran our second Bio-Bakes competition challenging students, academics and the public to bake some treats representing physiology – which once again proved to engage baking physiologists, young and old! The University of Cork helped fly the flag for physiology in Ireland by organising a day-long event including an ECG world record attempt, and rapping from academics.

We have continued to strengthen our links with the American Physiological Society. We formally became a Partner of the APS's Life Science Teaching Resource Community (LifeSciTRC) in 2014, and agreed a strategy in 2015 to develop this partnership. We also continued to collaborate with the Royal Society of Biology and other Member Organisations in organising joint events that served a common remit. These included a Big Biology Giveaway (a twilight session with talks and giveaways for school teachers) in Manchester and a Life Sciences Careers Conference.

## Higher Education Teaching Excellence

Recognising and rewarding teachers in higher education has been an activity that has gained momentum since joining efforts in education with those in policy. In 2015, the Education and Outreach Committee published a booklet entitled *Recognising Teachers in the Life Sciences*, which recognises teachers who have been promoted on the basis of their achievements in teaching. The booklet has been widely available and will be more actively circulated in 2016.

To recognise excellence in undergraduate teaching, we awarded the 2015 Otto Hutter Physiology Teaching Prize to Prem Kumar (University of Birmingham), who will deliver a prize lecture at Physiology 2016.

Complementary to the Society-led activities, the Education and Outreach Committee commit financial support to Members and non-members wishing to carry out their own research and run their own outreach and public engagement activities.

## History and Archives

In 2015, the History and Archives Committee was formally aligned with activities of the Education and Outreach Committee. The aim was to further raise the profile of The Society's history and historical archives, and to use these resources to strengthen activities in education and outreach.

The programme of activities has not been affected through this change. We had representation at international meetings – including Physiology 2015 in Cardiff where we showcased Professor Thomas Graham Brown's 'unlikely animal', which he developed to help demonstrate righting reflexes.

The Paton Prize Bursary was awarded in 2015 to Oksana Zayachkivska, Professor of Physiology at Lviv National Medical University, Ukraine. Oksana, a member of The Society, is conducting research into the life and work of Dr Leon Popielski – a pioneer in discovering the role of histamine in gastric secretion.

We also supported celebrations of the centenary of women's membership to The Society; our Honorary Archivist, Professor Tilly Tansey, co-edited the book *Women physiologists: Centenary celebrations and beyond* with Professor Susan Wray. The book highlights achievements and contributions of 20th and 21st century women physiologists. Professor Tansey was also awarded

and presented The Physiological Society Paton Prize Lecture during an event to mark the centenary celebrations. The title of the talk was 'Maud, Nettie, Ghetel and George: the hidden women of the early Physiological Society'.

Another publication of note was the 100<sup>th</sup> edition of Physiology News, edited by the Chair of the History and Archives Committee, David Miller. This edition included significant historical elements including reports from a Paton Bursary holder (Martha Tissot von Patot), a celebration of 1000 Society meetings, the history behind the alphabetical order of authors in *The Journal of Physiology*, and a review of the physiology family tree ([academictree.org](http://academictree.org)).

Looking to 2016, we will recruit an archivist to manage the accrual of Maureen Young's papers (a neo-natal physiologist; 1915–2013). The Oral History project will continue with publication of new interviews of key physiologists of our time. We will also run a photography competition to add to the valuable libraries we already have been given by Martin Rosenberg and Harold Lewis.

### 2015 Key Achievements

- Competition for schools to raise the profile of 100 years of women's membership of The Physiological Society
- Published a booklet to raise the profile of excellence in Higher Education Teaching Recognising Teachers in the Life Sciences
- Developed a cadre of hands-on activities to encourage students and the public to explore the physiological processes underpinning ageing
- Collaborated with cognate societies to deliver public events at Edinburgh Science Festival
- Organised the second #BioBakes competition, attracting 147 entries

### Objectives for 2016

- Develop a MOOC in Physiology to support the transition from biology A-level to undergraduate degrees in physiology and related subjects
- Conduct a review of education and outreach resources, with a view to strengthen future engagement with schools
- Ensure Education and Outreach activities reach a diverse audience that may not otherwise have access to inspiring science and scientists
- Develop a greater understanding of the outreach and public engagement work delivered by our members, and identify new ways to support them
- Complete a thorough evaluation of the Research Grant Scheme

## 1.10 Policy

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In 2015, we increased our direct political engagement with meetings held at the Labour and Conservative Party Conferences and responses to government consultations. The Health of Physiology report continued its gestation with a rewrite and will appear soon. Member engagement with policy was a growing priority, addressed (in part) by starting a Policy Newsletter.

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### Parliamentary engagement

There has been political interest in addressing teaching in higher education for a long while. The ex-Science Minister David Willetts called it ‘unfinished business’, and now his successor Jo Johnson has declared a ‘renewed focus on teaching’. We have had an interest in reward and recognition of teaching for some time, and have continued our efforts to engage with politicians on the topic throughout 2015. This included releasing a booklet, *Recognising Teachers in the Life Sciences*, developed by Professor Judy Harris and the Education & Outreach Committee, giving case studies of academics who have furthered their careers through teaching excellence.

In partnership with think tank Demos, we held meetings at the Labour and Conservative Party conference fringes. These events, entitled ‘Higher Expectations: who cares about teaching in HE?’, each involved a panel discussion and Q&A session. Each panel included a member of the Education & Outreach Committee (Judy Harris at the Labour fringe and Blair Grubb at the Conservatives), along with Nick Hillman (Higher Education Policy Institute) and Duncan O’Leary (Demos). Wes Streeting MP took part at the Labour fringe, while John Gill (Times Higher Education) and Megan Dunn (NUS) spoke at the Conservative fringe. The events centred around the forthcoming Teaching Excellence Framework (TEF), and the impact it will have on students and academics. Each was attended by around 25-30 people and saw some involved and lively discussion.

It was pleasing to see mentions of teaching excellence in the Green Paper released by the Department for Business, Innovation and Skills concerning their planned changes to higher education. We hope the government has truly recognised that, in order to improve teaching, there has to be a clear-cut career path and sufficient incentive for the teachers as well as the institution.

### Government consultations

We also responded to government consultations on the changes proposed for higher education. The first of these came before the Green Paper and sought general views on how to improve teaching and the outline of a TEF. We contributed to the response submitted by the Royal Society of Biology and also submitted an individual response emphasising our committee’s points. A further consultation was held after the Green Paper was released, seeking more detailed views on the proposals such as the link to tuition fees and the metrics by which teaching will be measured. We gave a significant contribution to the RSB’s response and endorsed this along with many other member societies.

A response was also submitted to the consultation on the Freedom of Information Act, focusing on its potential to harm institutions involved in animal research. We highlighted the necessary protection of information contained in research licences, particularly pertaining to ideas and potentially exploitable intellectual property. The potential burden FOI places on public bodies, again pertaining to research involving animals, was also highlighted.

### Animals in research

The In Vivo Sub-Committee has been busy in 2015 focusing on the ongoing issues, both political and regulatory, which affect the aspects of policy to do with the use of animals in research.

The EU has faced challenge from a Citizen's Initiative called 'Stop Vivisection', which petitioned for the repeal of Directive 2010/63/EU. This would have effectively stopped all experimental work with animals across the EU. We contacted Members to encourage them to lobby their MEPs prior to the hearing on this. The petition was recognised but no action was taken. The Directive is being renewed in 2017 and it is likely this issue will come up again.

Our representatives on the Animal Science Group and UK BioSciences Coalition gave comments and feedback to the Home Office's Animals in Science Regulation Unit on the guidance notes that were issued last year on rehoming, working with wild animals, and changes to the inspection regime. We continue to work with a number of sectoral and government bodies on relevant issues.

Similarly, 2015 has seen ongoing work on Section 24 of the Animals (Scientific Procedures) Act 1986, which deals with release of information relating to animals in research. Unfortunately there has been no resolution forthcoming, as the Ministers are still deciding what will happen with the Act.

Closer to home, the Sub-Committee worked with the Publications Committee on the revision of their guidance to authors on the reporting of work involving animals in our journals. These new guidelines have been published and are forming a benchmark for publication of research involving animals more widely.

### Collaborations

We have worked closely with the Royal Society of Biology since its inception. The RSB has gained prominence as a mouthpiece organisation for the life sciences and has been instrumental in liaising with government. To take advantage of this engagement we are in the process of joining the 'inner circle' of organisational members of the RSB. This will enable us to influence sectoral decisions at higher levels through access to the committees and board of the RSB – full engagement with RSB will be needed at all levels of our operation.

### Member engagement

2015 was a busy year, politically. The general election produced many promises from each Party and a great deal of analysis over what the results could mean to the science sector, complicated by the expectation of another coalition government (quickly proved wrong). Once the government was established the Spending Review process began, again with far-reaching consequences. There have also been a number of reviews and policy papers in the science sector. We helped to keep Members abreast of these policy developments by starting a Policy Newsletter, and have increased the use of social media to address current affairs. We will continue to base our policy recommendations on the views and requirements of the community of physiologists.

### Health of Physiology

The report has now been re-written and updated to inform our current aims, and will be launched in 2016.

### Science in Parliament

We have continued to sponsor the SET for Britain event, in which early-career researchers give a poster presentation of their work in Parliament. This event is very successful and popular with politicians, who appreciate the opportunity to engage with cutting-edge research.

### 2015 Key Achievements

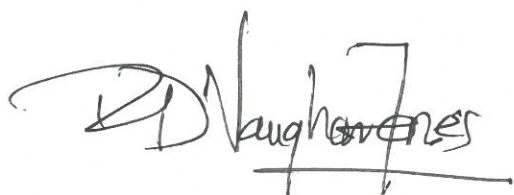
- Meetings at Labour and Conservative Party Conference Fringes
- Promotion of reward and recognition of teaching to government through consultations and meetings
- Engagement with policymakers to improve regulations on the use of animals in research
- Efforts to strengthen The Society's policy activities including membership engagement and building the relationship with the Royal Society of Biology

### Objectives for 2016

- Develop external face of policy work with newsletter, social media and policy position statements
- Publish and promote Health of Physiology report
- Continue political engagement on HE teaching and contribute to TEF implementation

## 1.11 Signing of report

This report was approved by the Trustees of The Physiological Society and signed on this 24th day of May 2016 on their behalf by:



Richard Vaughan-Jones

President



Anne King

Honorary Treasurer



## 2 Independent auditor's report

We have audited the financial statements of The Physiological Society for the year ended 31 December 2015, which comprise the Statement of Financial Activities, the Balance Sheet, the Cash flow Statement and the related notes. The financial reporting framework that has been applied in their preparation is applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).

This report is made solely to the charitable company's Members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the charitable company's members those matters we are required to state to them in an Auditor's Report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the charitable company and its Members, as a body, for our audit work, for this report, or for the opinion we have formed.

### Respective responsibilities of Trustees and auditor

As explained more fully in the Trustees' Responsibilities Statement, the Trustees (who are also the directors of the charitable company for the purposes of company law) are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view.

Our responsibility is to audit and express an opinion on the financial statements in accordance with applicable law and International Standards on Auditing (UK and Ireland). Those standards require us to comply with the Auditing Practices Board's (APB's) Ethical Standards for Auditors.

### Scope of the audit of the financial statements

A description of the scope of an audit of financial statements is provided on the Financial Reporting Council's website at [www.frc.org.uk/auditscopeukprivate](http://www.frc.org.uk/auditscopeukprivate).

### Opinion on financial statements

In our opinion the financial statements:

- give a true and fair view of the state of the charitable company's affairs as at 31 December 2015 and of the charitable company's net movement in funds including its income and expenditure, for the year then ended;
- have been properly prepared in accordance with United Kingdom Generally Accepted Accounting Practice; and
- have been prepared in accordance with the requirements of the Companies Act 2006.

### Opinion on other matters prescribed by the Companies Act 2006

In our opinion, the information given in the Trustees' Annual Report for the financial year for which the financial statements are prepared is consistent with the financial statements.

### Matters on which we are required to report by exception

We have nothing to report in respect of the following matters where the Companies Act 2006 requires us to report to you if, in our opinion:

- adequate accounting records have not been kept or returns adequate for our audit have not been received from branches not visited by us; or
- the financial statements are not in agreement with the accounting records and returns; or
- certain disclosures of Trustees' remuneration specified by law are not made; or
- we have not received all the information and explanations we require for our audit; or
- the Trustees were not entitled to prepare the financial statements in accordance with the small companies regime and to take advantage of the small companies' exemption from the requirement to prepare a Strategic Report or in preparing the Directors' Report.

*K E B L*

Kathryn Burton (Senior statutory auditor)  
for and on behalf of haysmacintyre  
Statutory Auditors

*24th May 2016*

26 Red Lion Square  
London  
WC1R 4AG

# 3 Statement of financial activities

For the year ended 31 December 2015

	Note	Unrestricted funds £'000	Restricted funds £'000	2015 Total £'000	2014 Total £'000
<b>Income from:</b>					
Charitable activities	7.1	3,568	-	3,568	3,730
Investments	7.2	143	-	143	151
Other trading activities		104	-	104	104
<b>Total</b>		<b>3,815</b>	<b>-</b>	<b>3,815</b>	<b>3,985</b>
<b>Expenditure on:</b>					
<i>Raising funds:</i>					
Investment management costs		21	-	21	16
<i>Charitable activities:</i>					
Publications		1,785	-	1,785	1,860
Events		648	-	648	721
Membership services		556	-	556	638
Education and outreach		561	5	566	577
Policy		209	-	209	208
Other		201	-	201	182
<b>Total</b>	7.3	<b>3,981</b>	<b>5</b>	<b>3,986</b>	<b>4,202</b>
<b>Net expenditure before gains on investments</b>		<b>(166)</b>	<b>(5)</b>	<b>(171)</b>	<b>(217)</b>
Net gains on investments		2	-	2	95
<b>Net movement in funds</b>		<b>(164)</b>	<b>(5)</b>	<b>(169)</b>	<b>(122)</b>
<i>Reconciliation of funds:</i>					
Fund balances as at 1 January 2015		11,778	130	11,908	12,030
<b>Fund balances as at 31 December 2015</b>	7.12	<b>11,614</b>	<b>125</b>	<b>11,739</b>	<b>11,908</b>

All the above results are derived from continuing activities. All gains and losses in the year are included above; accordingly, a statement of total realised gains and losses has not been prepared. The accounting policies on page 34 to 37 and the notes on pages 38 to 45 form part of these accounts.

The comparative figures for 2014 have been represented under FRS 102 (SORP 2015) on the Statement of Financial Activities in Note 7.15.

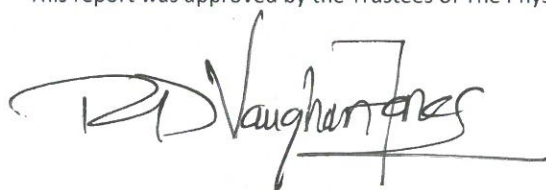
# 4 Balance sheet

As at 31 December 2015

	Note	Unrestricted funds £'000	Restricted funds £'000	2015 Total £'000	2014 Total £'000
<b>Fixed assets</b>					
Tangible assets	7.8	4,100	-	4,100	4,244
Investments	7.9	6,831	-	6,831	7,106
		<b>10,931</b>	<b>-</b>	<b>10,931</b>	<b>11,350</b>
<b>Current assets</b>					
Debtors	7.10	4,304	-	4,304	3,759
Cash at bank and in hand		121	125	246	106
		<b>4,425</b>	<b>125</b>	<b>4,550</b>	<b>3,865</b>
<b>Liabilities</b>					
Creditors falling due within one year	7.11	(3,742)	-	(3,742)	(3,307)
<b>Net current assets</b>		<b>683</b>	<b>125</b>	<b>808</b>	<b>558</b>
<b>Net assets</b>		<b>11,614</b>	<b>125</b>	<b>11,739</b>	<b>11,908</b>
<b>Funds</b>	7.12				
Unrestricted funds – General		11,614	-	11,614	11,778
Restricted funds		-	125	125	130
<b>Total funds</b>		<b>11,614</b>	<b>125</b>	<b>11,739</b>	<b>11,908</b>

The accounting policies on page 35 and 37 and the notes on pages 38 to 45 form part of these accounts.

This report was approved by the Trustees of The Physiological Society and signed on this 24th day of May 2016 on their behalf by:



Richard Vaughan-Jones

President



Anne King

Honorary Treasurer

# 5 Statement of cash flows

For the year ended 31 December 2015

	Note	2015 Total £'000	2014 Total £'000
<b>Cash flows from operating activities:</b>	<b>7.13</b>	<b>(267)</b>	<b>(1,527)</b>
<b>Cash flows from investing activities:</b>			
Dividends and interest		143	151
Purchase of investments		(983)	(676)
Movement in cash awaiting investment		140	(91)
Proceeds from sale of investments		1,120	788
Purchase of property, plant and equipment		(13)	(19)
<b>Net cash provided by investing activities</b>		<b>407</b>	<b>153</b>
<b>Change in cash and cash equivalents in the year</b>		<b>140</b>	<b>(1,374)</b>
Cash and cash equivalents at the beginning of the year		106	1,480
<b>Cash and cash equivalents at the end of the year</b>	<b>7.14</b>	<b>246</b>	<b>106</b>

# 6 Accounting policies

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For the year ended 31 December 2015

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## Basis of preparation of accounts

The financial statements have been prepared in accordance with Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2015) - (Charities SORP (FRS 102)), the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) and the Companies Act 2006.

The Physiological Society meets the definition of a public benefit entity under FRS102. Assets and liabilities are initially recognised at historical cost or transaction value unless otherwise stated in the relevant accounting policy notes.

## Going concern

Given the level of free reserves available at the year end and its publishing contract with Wiley, the Trustees consider that The Society has adequate resources to continue in operational existence for the foreseeable future. Accordingly the financial statements have been prepared on a going concern basis.

## Reconciliation with previous Generally Accepted Accounting Practice

In preparing the accounts, the Trustees have considered whether in applying the accounting policies required by FRS 102 and the Charities SORP the restatement of comparative items was required. No restatement of items has been required in making the transition to FRS 102. The transition date was 1 January 2014.

## Statement of cash flows

The Society's cash flow statement reflects the presentation requirements of FRS 102, which is different to that prepared under FRS 1. In addition, the cash flow statement reconciles cash and cash equivalents whereas under previous UK GAAP the statement reconciled to cash.

## Fund accounting

Unrestricted funds are available for use at the discretion of the Trustees in furtherance of the charitable objects of The Society. Restricted income funds are funds subject to specific restrictions imposed by donors or by the purpose of the appeal.

## Incoming resources

All income is recognised once The Society has entitlement to income, it is probable that income will be received and the amount of income receivable can be measured reliably. The following specific policies are applied to particular categories of income:

- Investment income is included when receivable.
- Publishing, events and other income are included when receivable.
- Members' subscriptions are recorded in the year in which they become due.

### Resources expended

Expenditure is recognised on an accrual basis as a liability is incurred. Expenditure includes any VAT which cannot be fully recovered, and is reported as part of the expenditure to which it relates.

Raising funds consist of investment management fees and certain legal and professional fees.

Charitable expenditure comprises those costs incurred by The Society in the delivery of its activities and services for its beneficiaries. It includes both costs that can be allocated directly to such activities and those costs of an indirect nature necessary to support them.

Governance costs include those costs associated with meeting the constitutional and statutory requirements of The Society. These costs include the audit and legal fees, costs linked to the strategic management of The Society together with an apportionment of overhead and support costs. Governance costs are now apportioned on the same basis as support costs.

All costs are allocated between the expenditure categories of the accounts on a basis designed to reflect the use of the resource. Costs relating to a particular activity are allocated directly; others are apportioned on the basis of time spent.

### Grants payable

Expenditure on grants is recorded once The Society has made an unconditional commitment to pay the grant and this is communicated to the beneficiary or the grant has been paid, whichever is the earlier. The Society has not made any grant commitments of more than one year.

### Pension costs

The Trustees of The Society decided to close The Society's Occupational Pension Scheme to new members from 1 March 2000. From that date, a defined contribution (money purchase) pension scheme has been in place and operated in compliance with the Stakeholder pension requirements.

The Society makes contributions towards the defined contribution schemes, up to a maximum of 10% of basic salary. The amount charged to the accounts in respect of pension costs is the contribution payable in the year. Differences between contributions payable in the year and contributions actually paid are shown as either accruals or prepayments in the balance sheet.

### Fixed assets

Tangible fixed assets are stated at cost less accumulated depreciation. Minor additions to fixed assets, defined as those costing less than £1,000 each, are expensed in the year in which the cost is incurred. Depreciation is provided to write off the cost of assets by equal monthly instalments over their estimated useful lives as follows:

- Freehold property: 50 years.
- Freehold improvements: 15 years.
- Fixtures, fittings and equipment: 3–10 years.

### Investments

Investments listed on a recognised stock exchange are stated at mid-market value at the balance sheet date.

#### Realised gains and losses

All gains and losses are taken to the statement of financial activities as they arise. Realised gains and losses on investments are calculated as the difference between sale proceeds and opening market value (purchase date if later). Unrealised gains and losses are calculated as the difference between the market value at the year end and opening market value (purchase date if later).

#### Debtors

Trade and other debtors are recognised at the settlement amount due after any trade discount offered. Prepayments are valued at the amount prepaid net of any trade discounts due.

#### Cash at bank and in hand

Cash at bank and cash in hand includes cash and short term highly liquid investments.

#### Creditors and provisions

Creditors and provisions are recognised where The Society has a present obligation resulting from a past event that will probably result in the transfer of funds to a third party and the amount due to settle the obligation can be measured or estimated reliably. Creditors and provisions are normally recognised at their settlement amount after allowing for any trade discounts due.

#### Employee short term benefits

Short term benefits including holiday pay are recognised as an expense in the period in which the service is received.

#### Employee termination benefits

Termination benefits are accounted for on an accrual basis and in line with FRS 102.



# 7

## Notes to the financial statement

For the year ended 31 December 2015

### 7.1 Income from charitable activities

	2015 £'000	2014 £'000
Publications	3,315	3,260
Events	108	149
Membership subscriptions	122	119
Sundry income	23	202
	<b>3,568</b>	<b>3,730</b>

All of The Society's trading activities are carried out within its prime charitable purposes. The Society was exempt from income tax, corporation tax or capital gains tax on income derived from its trading or charitable activities. 2014 sundry income includes £147,000 in respect of the asset transfer from the Bayliss and Starling Society, of which £50,000 was restricted.

### 7.2 Income from investments

	2015 £'000	2014 £'000
Dividend income	142	147
Bank deposit interest	1	4
	<b>143</b>	<b>151</b>

### 7.3 Analysis of expenditure

	Grants costs £'000	Other direct costs £'000	Support and governance costs £'000	Total 2015 £'000	Total 2014 £'000
<i>Raising funds:</i>					
Investment management costs	-	20	1	21	16
<i>Charitable activities:</i>					
Publications	-	1523	262	1785	1,860
Events	-	564	84	648	721
Membership services	227	222	107	556	638
Education and outreach	221	253	92	566	577
Policy	-	159	50	209	208
<i>Other</i>	-	167	34	201	182
	<b>448</b>	<b>2,908</b>	<b>630</b>	<b>3,986</b>	<b>4,202</b>

Charitable expenditure was £3,986,000 (2014: £4,202,000) of which £3,981,000 was unrestricted (2014: £4,200,000) and £5,000 was restricted (2014: £2,000).

## 7.4 Analysis of support and governance costs

The Society initially identifies the costs of its support functions. It then identifies those costs that relate to the governance function. Having identified its governance costs, the remaining support costs together with the governance costs are apportioned between the primary activities undertaken (see note 7.3) in the year. The Trustees have decided to meet all governance costs from unrestricted funds and so no allocation is made to restricted funds for any governance related costs. Refer to the table below for the basis for apportionment and the analysis of support and governance costs.

	General support £'000	Governance function £'000	2015 £'000	2014 £'000	Basis of apportionment
Staff costs	-	121	121	108	Allocated on time
Employee-related costs	83	6	89	80	Allocated on time
Premises – office	37	3	40	51	Allocated on time
Technology	74	5	79	76	Allocated on time
Postage, printing and stationary	17	1	18	25	Allocated on time
Insurance	14	1	15	17	Allocated on time
Financial costs	6	-	6	8	Allocated on time
Depreciation	147	10	157	154	Allocated on time
AGM, Council and committee expenses	-	42	42	45	Governance
Auditors remuneration	-	9	9	11	Governance
Legal and professional	-	10	10	24	Governance
Academic support	-	44	44	45	Governance
	<b>378</b>	<b>252</b>	<b>630</b>	<b>644</b>	

## 7.5 Analysis of grants

The Society awarded grants to a number of institutions and individuals in the furtherance of its charitable activities.

	2015 No.	2014 No.	2015 £'000	2014 £'000
Travel grants	399	446	206	238
Research grants	10	13	100	107
Vacation studentships	50	40	48	41
Public engagement grants	9	8	28	30
Departmental seminar scheme	34	32	18	27
Teaching grants	3	2	15	17
Microelectrode workshop	1	1	17	15
Outreach grants	14	9	8	9
International junior research grants	-	3	-	6
Home office training for undergraduates	1	-	3	-
Special symposium	-	1	-	2
Paton prize bursary fund	-	1	-	1
David Jordan Fellowship	1	-	5	-
	<b>522</b>	<b>556</b>	<b>448</b>	<b>493</b>

## 7.6 Staff costs

	2015 £'000	2014 £'000
Gross wages and salaries	1,005	990
Social security costs	96	99
Pension costs	95	96
	<b>1,196</b>	<b>1,185</b>

Included in the above were sums relating to redundancy or termination payments totalling £90,000 (2014: £35,000).

The key management personnel of The Society comprises the board of Trustees and the Chief Executive. The Trustees received no remuneration in respect of their services to The Society. The total employment benefits including employer pension contributions of the key management personnel were £149,000 (2014: £118,000).

The average number of persons employed including part-time and agency staff, calculated on a full-time equivalent basis analysed by activity, was:

	2015 Number	2014 Number
Publications	7.7	7.7
Finance	3.6	4.1
Marketing	5.3	5.5
Education, Outreach & Policy	3.2	4.2
CEO's office	3.0	3.0
	<b>22.8</b>	<b>24.5</b>

### Emoluments of employees

The number of employees of The Physiological Society whose emoluments fell within the following bands:

	2015 Number	2014 Number
£60,001 – £70,000	2	2
£100,001 – £110,000	-	1
£130,001 – £140,000	1	-

During the year, pension contributions on behalf of these staff amounted to £25,000 (2014: £23,000).

## 7.7 Related party transactions

All Trustees are Members of The Physiological Society. The Trustees received no remuneration in respect of their services to The Society but certain host departments received academic support amounting to £44,000 (2014: £44,000) and Trustees (23 in total) incurred expenses totalling £55,000 (2014: 26, £37,000).

### Academic support

The following Trustees' institutions received academic support payments during the year:

Trustee	Institution	£
B Grubb	University of Liverpool	3,000
D Eisner	University of Manchester	7,000
A King	University of Leeds	7,000
P Kumar	University of Birmingham	3,000
M Morrell	Imperial College London	3,000
K O'Halloran	University College Cork	7,000
R Vaughan-Jones	University of Oxford	14,000
		<b>£44,000</b>

### Free basic membership

The following Trustees received free membership, worth up to £95, in 2015 as follows:

Trustee	Reason
M Evans	Editor of <i>The Journal of Physiology</i>
P Kumar	Editor of <i>Experimental Physiology</i>
K O'Halloran	Editor of <i>Experimental Physiology</i>

### Editorial support

During the year, payments totalling £116,000 (2014: £112,000) were made to senior journal editors in respect of honoraria and institutional editorial support. S Wray, Editor-in-Chief of *Physiological Reports*, is married to D Eisner, a Trustee. During 2015, S Wray received an honorarium of \$15,000 plus a performance-related bonus of \$5,000. This is paid by the publishers, Wiley, out of the joint journal account shared with Wiley and the American Physiological Society.

### Travel grants

Travel grants were awarded to five Trustees in the year. The applications by D Baines (£700), L Donaldson (£387), M Ludwig (£700), L Sivilotti (£700) and R Tribe (£700) were approved by an independent panel of Members of The Society composed of not less than three Members who are not Trustees.

### ADInstruments Pty Ltd

The Society has a long-standing relationship with ADInstruments Pty Ltd, an international company that produces data acquisition and analysis systems for the life science industry. Dr Graeme Daniels, the husband of Dr R Tribe, a Trustee, was appointed as General Manager – Europe and European Sales Director in October 2013. During year, invoices totalling £11,622 were raised in respect of supplies to the company. Dr R Tribe has not and will not play any part in any discussion related to any transaction between The Society and ADInstruments Pty Ltd.

### Otto Hutter Prize

J Harris, a Trustee, was awarded £500 for the Otto Hutter Teaching Prize in 2014. This was paid in February 2015.

## 7.8 Tangible fixed assets

	Freehold Property £'000	Freehold Improvements £'000	Fixtures, Fittings and Equipment £'000	Total £'000
<b>Cost:</b>				
At 1 January 2015	3,500	834	230	<b>4,564</b>
Additions	-	-	13	<b>13</b>
<b>At 31 December 2015</b>	<b>3,500</b>	<b>834</b>	<b>243</b>	<b>4,577</b>
<b>Accumulated depreciation:</b>				
At 1 January 2015	146	115	59	<b>320</b>
Charge for the year	70	56	31	<b>157</b>
<b>At 31 December 2015</b>	<b>216</b>	<b>171</b>	<b>90</b>	<b>477</b>
<b>Net book value at 31 December 2015</b>	<b>3,284</b>	<b>663</b>	<b>153</b>	<b>4,100</b>
<b>Net book value at 31 December 2014</b>	<b>3,354</b>	<b>719</b>	<b>171</b>	<b>4,244</b>

## 7.9 Investments

	2015 £'000	2014 £'000
<b>Analysis of investments at 31 December by category of holding</b>		
Listed investments	<b>6,764</b>	6,899
Cash held as part of the portfolio	<b>67</b>	207
	<b>6,831</b>	<b>7,106</b>
<b>Analysis of investments at 31 December by location</b>		
Investments held in the UK	<b>5,520</b>	5,855
Investments held outside the UK	<b>1,311</b>	1,251
	<b>6,831</b>	<b>7,106</b>
<b>Analysis of movements in investments</b>		
Valuation at 1 January 2015	<b>6,899</b>	6,916
Additions	<b>983</b>	676
Market value of disposals in the year (proceeds: £1,120,000 (2014: £788,000))	<b>(1,103)</b>	(833)
Net unrealised gains	<b>(15)</b>	140
<b>Valuation at 31 December 2015</b>	<b>6,764</b>	<b>6,899</b>

The Trustees do not consider any particular investment holding to be material in the context of the investment portfolio.

## 7.10 Debtors

	2015 £'000	2014 £'000
Trade debtors	1,384	1,098
Other debtors	2,653	2,518
Prepayments and accrued income	267	143
	<b>4,304</b>	<b>3,759</b>

## 7.11 Creditors

	2015 £'000	2014 £'000
Trade creditors	118	7
Other taxes and social security costs	159	174
Other creditors	3	3
Accruals and deferred income	3,462	3,123
	<b>3,742</b>	<b>3,307</b>

## 7.12 Analysis of net funds

	Opening balance £'000	Incoming resources £'000	Outgoing resources £'000	Net gains £'000	Closing balance £'000
<b>Unrestricted funds</b>					
General funds	11,778	3,815	(3,981)	2	11,614
<b>Total unrestricted funds</b>	<b>11,778</b>	<b>3,815</b>	<b>(3,981)</b>	<b>2</b>	<b>11,614</b>
<b>Restricted funds</b>					
Bayliss and Starling Society fund	50	-	-	-	50
David Jordan international teaching fellowship fund	44	-	(5)	-	39
Paton prize bursary fund	21	-	-	-	21
Other restricted funds:	15	-	-	-	15
<b>Total restricted funds</b>	<b>130</b>	<b>-</b>	<b>(5)</b>	<b>-</b>	<b>125</b>
<b>Total funds</b>	<b>11,908</b>	<b>3,815</b>	<b>(3,986)</b>	<b>2</b>	<b>11,739</b>

In the financial year to 31 December 2014, the Bayliss and Starling Society transferred assets to the Society totalling £147,000 of which £50,000 was restricted to the Bayliss–Starling Prize Lecture and Focussed Symposium Grant, for the period of 10 years from 2016.

In 2008, The Physiological Society received a bequest from the estate of Professor David Jordan. As a fitting tribute to his memory, the Trustees proposed a new scheme, which commenced in 2010, that will help support physiology teaching worldwide. Funds of up to £10,000 will be awarded per annum.

The Paton Prize Bursary Fund awards bursaries to promote the study of the history of major concepts that have shaped modern physiology. There was a single award of £5,000 in the year.

There are two other restricted funds: the Sharpey-Schafer Prize Lecture fund and the Michael de Burgh Daly Prize Lecture fund.

## 7.13 Reconciliation of net movement in funds to net cash flow from operating activities

	2015 £'000	2014 £'000
Net movement in funds	(169)	(122)
(Gains) on investments	(2)	(95)
Depreciation charges	157	154
Increase in debtors	(545)	(1,190)
Increase/(decrease) in creditors	435	(123)
Dividends and interest	(143)	(151)
<b>Net cash used in operating activities</b>	<b>(267)</b>	<b>(1,527)</b>

## 7.14 Analysis of cash and cash equivalents

	2015 £'000	2014 £'000
Cash in hand	246	106
	<b>246</b>	<b>106</b>

## 7.15 Comparative SOFA per FRS 102 (SORP 2015)

	Unrestricted funds £'000	Restricted funds £'000	2014 Total £'000
<b>Income from:</b>			
Charitable activities	3,680	50	3,730
Investments	151	-	151
Other trading activities	104	-	104
<b>Total</b>	<b>3,935</b>	<b>50</b>	<b>3,985</b>
<b>Expenditure on:</b>			
<i>Raising funds:</i>			
Investment management costs	16	-	16
<i>Charitable activities:</i>			
Publications	1,860	-	1,860
Events	720	1	721
Membership services	654	-	654
Education and outreach	560	1	561
Policy	208	-	208
Other	182	-	182
<b>Total</b>	<b>4,200</b>	<b>2</b>	<b>4,202</b>
<b>Net expenditure before gains on investments</b>	<b>(265)</b>	<b>48</b>	<b>(217)</b>
Net gains on investments	95	-	95
<b>Net movement in funds</b>	<b>(170)</b>	<b>48</b>	<b>(122)</b>
<i>Reconciliation of funds:</i>			
Fund balances as at 1 January 2015	11,948	82	12,030
<b>Fund balances as at 31 December 2014</b>	<b>11,778</b>	<b>130</b>	<b>11,908</b>



## 8 Standing information

### Registered Office

Hodgkin Huxley House, 30 Farringdon Lane, London EC1R 3AW  
T +44 (0)20 7269 5714

### Chief Executive

Philip Wright (to October 2015)  
Casey Early (interim Chief Executive from November 2015)

### Company Secretary

Casey Early

### Bankers

Royal Bank of Scotland, Child & Co, 1 Fleet Street, London EC4Y 1BD

### Solicitors

BPE Solicitors LLP, St James' House, St James' Square, Cheltenham GL50 3PR

### Auditors

haysmacintyre, 26 Red Lion Square, London WC1R 4AG

### Investment fund managers

Cazenove Capital Management Limited, 12 Moorgate, London EC2R 6DA

Trustees in 2015		
Philip Aaronson	Michael Evans (to July 2015)	Stewart Sage (to July 2015)
Deborah Baines	Blair Grubb	Frank Sengpiel (from July 2015)
Guy Bewick (from July 2015)	Judy Harris	Holly Shiels (from July 2015)
Rebecca Burton (to July 2015)	Anne King	Lucia Sivilotti
William Colledge (to July 2015)	Prem Kumar	David Thwaites (to July 2015)
Sue Deuchars	Mike Ludwig	Rachel Tribe
Lucy Donaldson	Mary Morrell	Richard Vaughan-Jones
David Eisner	Ken O'Halloran	

The Physiological Society is registered in England as a company limited by guarantee, No. 323575.

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