



Institution of Railway Signal Engineers

Annual Report

Number 110

1 January to 31 December 2022

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This Annual Report briefly describes the activities undertaken by the Institution of Railway Signal Engineers (IRSE) throughout the world during 2022. Our President from April 2022 has been Andy Knight FIRSE from the United Kingdom.

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For up to date information about the Institution or its activities, or to download a membership application form, log on to the IRSE website www.irse.org.

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IRSE ///

Institution of Railway Signal Engineers

The
Professional Engineering Institution
for all those engaged or interested in
railway signalling, control and
communications
and allied disciplines

Around **5000** members in
locations **across the world**

Providing world-class **presentations, seminars,**
conventions and **conferences**

Industry leading competence assessment and
licensing
scheme

The world's leading
professional examination
for railway signalling, control and communications

11 issues of
IRSE News each year:
our specialist railway signalling, control and
communications magazine

23 Sections
representing the needs of members in their
geographic region or specialism

Accredited by the
Engineering Council to add
Chartered Engineers, Incorporated
Engineers and Engineering Technicians
to the Professional Register

Vibrant
Younger Members
Section

Run by
engineers for engineers

Founded in **1912**

An introduction from our President



I was very fortunate to be a President who, for the first time in two years, was able plan a full year. This included a technical weekend in Dublin and travel to sections around the globe. I was able to attend the Minor Railways AGM and technical visit on the Romney, Hythe and Dymchurch Railway, the Members Lunch in London, a visit to the Netherlands, the International Convention in Glasgow and the York Section dinner. I travelled to the "CBTC and beyond" conference in Toronto and this visit also allowed both the CEO and I to hold several meetings with Canadian based organisations. The enthusiasm we saw for the opportunities that our membership, licensing and professional registration offer was very encouraging.

During my year I was proud to be part of significant change in our governance to ensure the membership was more widely represented in Council and also the formation of the Equality, Diversity and Inclusivity group, details of which are to be found in this annual report.

The Institution finally came out of the restrictions forced on us by the Covid-19 pandemic which had affected all of our lives. Although we, as an Institution, battled through and continued to provide a service to our membership, I do not think we fully realised the effect the pandemic still had on our personal and professional lives. It certainly eased as we entered 2022, but it had not fully disappeared and surges in infection continued to affect our membership around the globe.

Therefore, we saw ourselves leaving the pandemic but still facing a challenge of a change in attitude and a reluctance to come out of the 'work at home' era.

This was clear in the delivery of my presidential lecture series, the first of which was delivered on line- something we had become so used to during the pandemic. We then tried to make a logical return to face to face, but struggled to see the attendance levels reach the numbers previously enjoyed. I understand other Professional Engineering Institutions (PEIs) are also experiencing this and it is an issue for which we all need to find a workable solution.

My year was also going to be a transitional year, and this was in my mind when choosing my theme "Shaping the Future". In my presidential address I looked at how new technology shapes the industry and how we as an Institution can continue to reflect and meet the challenges ahead.

As the year progressed, we saw the delivery of a diverse series of papers including one on diversity itself delivered by a well respected female engineer.

The rest of my programme sought to identify some of the technical challenges going forward. Although we have a vast amount of technical skill within the industry, we still face the challenge of how to ensure we provide our engineers with the support they need. The body of knowledge and content we deliver on our website and our networks is vital if we are to be seen as valuable and relevant to our membership.

The planning of any event should never be underestimated and as the first International event to be held in over two years, the Convention was no exception. The hours and commitment of the planning committee and the IRSE Scottish Section cannot be underestimated, and I do not have enough space to express my thanks and admiration of the joint members of this group. We delivered a very successful event which saw us see a good mixture of old and young members in attendance with 10 bursaries and excellent weather!

This year also saw the death of Her Majesty Queen Elizabeth II. I wrote to the King on behalf of the Institution to express our condolences.

I have no doubt that my predecessors pondered over what they wanted to achieve from their respective years. I was keen to see something new and was delighted to achieve the launch and release of the IRSE10/// series of videos.

Any presidential year and programme would not be possible without the help of the wider IRSE community. I have been blessed with the support and co-operation of the HQ staff and volunteers which has necessitated many on-line meetings at various times of the day for many people and for that I thank you all.

We continue to come out of our enforced isolation and I am encouraged by the innovation and adaptability of our members and long may this continue.

Thank you for all your support and encouragement.

Andy Knight FIRSE, President 2022-2023

Objectives of the Institution

The Institution's objectives are recorded in its Articles of Association. They can be traced back to the formation of the Institution in 1912 and are:

- a) The advancement for the public benefit of the science and practice of signalling by the promotion of research, the collection and publication of educational material and the holding of conferences, seminars and meetings, and
- b) The maintenance of high standards of practice and professional care amongst those working within the industry and the promotion of improved safety standards for the protection of the general public.

Although it might appear that the IRSE is concerned only with railway signalling, the full text of the objectives makes clear that all forms of train control and traffic management, and communications systems, are all within our scope of interest.

There is a clear emphasis in the objectives on 'public benefit'. This is most obvious in the sense of contributing to safety on the world's railways, where train control systems play a critical role. But we are also interested in ensuring that railways are efficient, cost-effective and sustainable (in the widest sense).

We meet our obligations to the public through the following principal mechanisms:

- The dissemination of knowledge, experience and good practice in the fields of railway signalling, control and communications and allied topics, to help ensure that those working in the profession do so with the best available knowledge for the safe, efficient and cost-effective construction and operation of the world's railways;
- The delivery of examinations at certificate and advanced level which contribute to the assurance of knowledge gained. In addition, through the application of the Engineering Council UK licenses the assessment and entry of Chartered, Incorporated and Engineering Technicians onto the Register of Professional Engineers;
- The provision and management of the IRSE Licensing Scheme to assure the competence of those working in the profession. The Scheme is focussed predominantly, but not exclusively, on ensuring safety in the design, construction, testing and maintenance of signalling and telecommunications systems;

- Our Code of Professional Conduct, with which IRSE members are required to comply in the course of their work. It emphasises topics such as personal responsibility for work undertaken or managed by IRSE members, the importance of safeguarding the public interest (particularly safety), environmental management, the efficient use of resources, handling conflicts of interest etc.
- Undertaking specific initiatives to help ensure the safety and efficiency of railways.

By bringing the IRSE sections around the world together, we will facilitate the sharing of best practice and new initiatives to help engineers and others enhance their knowledge and professionalism. We will continue to reach out and grow our network of professionals around the world to harness the collective knowledge they possess for the benefit of all operators and users of railway transport.

The financial resources of the Institution are applied to achieve the objectives of the Institution, in addition to which members make a significant contribution to delivering the Institution's aims by their volunteer activities. The Institution has only a small number of full and part-time staff and most of the activities are organised by our members acting in a voluntary capacity.



Our Strategy

We are now more than halfway through the delivery of our "Beyond a 2020 vision" details of which are available on the website. The objective of making the IRSE accessible to members 24 hours a day 7 days a week throughout the year, has improved the general access for members and has been well received and used. This report will demonstrate how over the past year we have opened more access to the global membership to the vast wealth of knowledge that exists within the membership. Our engagement with international members has been enhanced through the ability to undertake international travel once again and there are examples of that in this report.

The commitment of staff and volunteers has seen a growth in our operational areas aligned with our key focuses of Engage, Grow, Develop, Network and Assure. A study of the key indicators within this report will show an increase in all these areas.

As a result of the implementation of the recommendations from the Governance Review Working Group, we are now seeking a balanced representation on Council which mirrors the global nature of the membership. Recognising the need to ensure we offer an inclusive

offering which embraces diversity and equality Council has formed a working group to study that area of our value proposition, the outcomes will be incorporated in our future strategy. The Council met in Glasgow just prior to the Convention to examine in more detail how the strategy will need to develop to keep pace with the changes in the Institution. This half day event was deemed to be so beneficial that Council resolved to hold a full strategy day every year before each ASPECT conference or Convention.

The five key elements of the plan are shown in the infographic at the bottom of the page.

The Convention and the Indian seminar helped to drive forward the important aspect of bring the skills and knowledge of the sector together. In addition the introduction of more high quality video and technical papers helps to support the vision of safe and sustainable global railways.

The IRSE vision is to:
Deliver Safe and Sustainable Global Railways

IRSE 

To **ENGAGE** with and **GROW** a global **NETWORK** of railway signal and telecommunications engineers in order to **DEVELOP** and **ASSURE** high standards of ethics, knowledge, competence and safety in all aspects of train control.

The five key elements of the IRSE strategic plan are



Engage

Digital platform for a global professional body 24/7/365, early careers support, communicate best practice in ethics, diversity, inclusivity, produce technical documentation, knowledge transfer activities.



Grow

Peer recognition, professional development, practice support and guidance, support in professional obligations, Advance profession.



Network

Global local section development, International Technical Committee support, conferences, seminars and conventions, facilitate collaboration, latest information and news.



Develop

Signpost professional development, awards & bursaries, upskilling and re-skilling, examination, apprenticeships, promote benefits to the public.



Assure

International professional recognition, flexible pathways to professional registration, offer regulation in professional conduct, operate the licensing scheme.

Governance

Council

The IRSE is now governed by an elected Council of twenty-two Corporate Members, who are the Trustees and Directors of the Institution, led by the President. The full list of Council members for 2022 can be found on p16.

Seven meetings of the Council were held during the year in which the business of the Institution was conducted. In addition the Council met for a half day strategy meeting just prior to the start of the International Convention in Glasgow. To assist members of Council in different time zones to attend meetings the start times were adjusted so that not all meetings were held during UK business hours, as had previously been the case.

The Articles of Association permit the current Chairs of all local sections, principal committees and Country Vice-Presidents to attend Council meetings. During the year several Chairs and Country Vice-Presidents attended meetings all of which were conducted via video conferencing. The strategy day was a mixture of face to face and online discussion. This meeting was only for Council members.

In addition to conducting all the normal Council business during the year, Council discussions included the following topics:

- Revision of the AGM process so that members outside the UK could attend.
- Changes to the election process to elect a balanced global representation of Council members
- Establishing working groups for Equality Diversity and Inclusivity, and for volunteer recruitment, led by the Council portfolio holders.
- Monitoring the succession plan for the office of President.

Council also receives and reviews the annual report from each of the international sections of the IRSE.

Committees

The Institution has several standing committees which are accountable to Council, through which our activities are managed. The principal Committees and their relationships to Council are shown in the diagram below. In addition, task and finish working groups are formed from time to time which focus on specific areas of interest.

To assist in driving key areas of the Institution members of Council are allocated portfolios of responsibility.

Audit

External Audit

A number of areas of the Institution's business are audited on a regular basis by various external audit bodies:

- All areas of finance are subject to audit annually by independent external auditors who submit their report to the Annual General Meeting.
- The Licensing Scheme is subject to an annual external audit by the United Kingdom Accreditation Service (UKAS).
- As a registered Charity, the Institution is subject to periodic external review by the Charity Commission.
- As the Institution is licensed by the Engineering Council in the UK to register Chartered and Incorporated Engineers and Engineering Technicians, it is subject to a review every five years by the Engineering Council to ensure compliance with their registration standards.

Internal audit

The IRSE's internal Audit Committee undertakes independent audits to complement the external audits, in order to ensure the Institution is running efficiently and effectively. The audits focus primarily on the role and remit of each of the principal committees of the Institution.

The Audit Committee normally performs two audits per annum. Each audit results in a report, which is presented to the Chair of that committee, the Chief Executive and subsequently the Council, which uses the recommendations to improve the management of the Institution's affairs for public benefit and for the benefit of its members. The Institution maintains a Risk Register, which is reviewed annually by Council, and this is used as the basis for audit.

IRSE Enterprises

IRSE Enterprises Ltd is the trading company wholly owned by the Institution. The trading company handles several activities which are associated with but outside the direct scope of the charity.

Following a review of the governance of Enterprises Board and on the advice of the IRSE firm of Solicitors (Tozer's) an additional member of the board was appointed with specific responsibility for the Licensing scheme. This aspect of Enterprises activity was deemed to be of such significance that it should have its own non-executive director.

The Directors of the company appointed for the year April 2022 to April 2023 were:

- Chair (Immediate Past President): Ian Bridges FIRSE
- President: Andy Knight FIRSE
- Senior Vice President: Steve Boshier FIRSE
- Junior Vice-President: Yuji Hirao FIRSE
- Junior Vice-President: Jane Power FIRSE
- Licensing Committee Representative: Paul McSharry MIRSE
- IRSE Treasurer: Andrew Smith FIRSE
- Company Secretary (CEO): Blane Judd

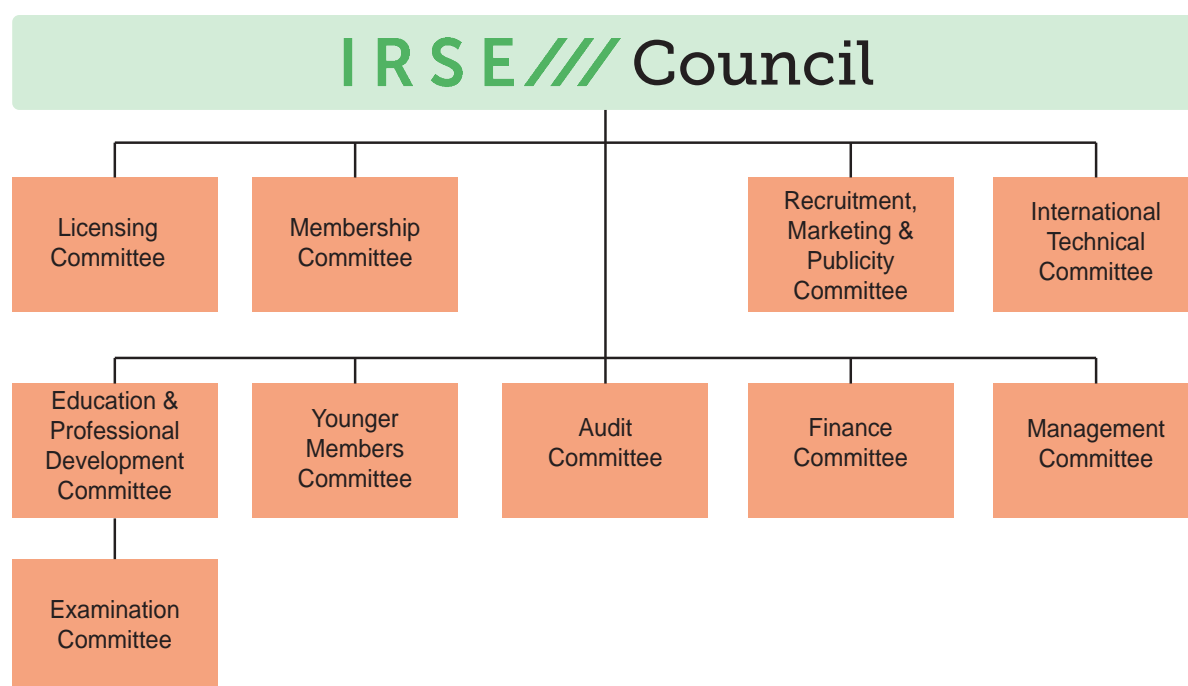
Any profits from the company are, where possible, gift-aided back to the Institution.

Sections

The IRSE sections around the world exist by authority of the IRSE Council, and they operate in accordance with a set of Articles of Association (or Bye-laws) that have been approved by Council. At the end of 2022 there were 23 sections in total, 15 sections outside the UK in various parts of the world (Australasia, China, France, Hong Kong, India, Indonesia, Ireland, Japan, Malaysia, Netherlands, North America, Singapore, Southern Africa, Swiss, Thailand) and six UK-based. The North America Section includes the USA, Canada and Mexico. The Ireland Section includes both Northern Ireland and the Republic of Ireland.

Two other sections also exist – the Younger Members' Section and the Minor Railways' Section. These are not geographically based, and their activities are predominantly within the UK. Some geographical sections also have younger members' groups.

Each section has an organising committee, with elected officers for key roles. Information about the activities of the sections is provided elsewhere in this report.



IRSE volunteers

The Institution is heavily reliant on, and is very grateful to all its volunteers, without whom the Institution would not be able to perform all its duties, supporting the governance, running and reputation of the IRSE locally and internationally.

Our volunteers have continued supporting the institution this year, giving their expertise, time and enthusiasm in areas including, but not limited to: local section committee membership,

event organisation, international committee membership, running study groups, Council membership, exam question setting and marking, reviewing applications for professional registration, writing and editing IRSE News and textbooks.

Our volunteers develop useful skills, knowledge, experience and networking contacts through the work which they do for the Institution which they may

not get the opportunity to gain within a work environment.

If you are interested in becoming a volunteer for the IRSE, please contact your local section or hq@irse.org saying how you would like to contribute.

Thank you, as an IRSE volunteer you are an essential part of our institution.

Equality, Diversity, Inclusivity

The EDI Group was set up in early 2022 to develop the IRSE's vision, strategy and plan for Equality, Diversity and Inclusivity (EDI). The group is led by Harvinder Bhatia FIRSE as the Portfolio owner and comprises a number of people from the IRSE including the Chief Executive and the President. An external EDI specialist has also joined the group to provide their experience and skills.

Events across the world over the past couple of years have increased the focus on EDI for both employers, employees and prospective employees (or prospective institution members). Organisations that actively engage in

these values will be able to attract and retain individuals from diverse groups both nationally and internationally. This is particularly important for the IRSE as it wants to engage and grow within a global network.

The EDI Group will challenge the organisation in terms of practice, approach and development of equality, diversity and inclusivity; in particular where progress is limited or, in support of underrepresented or disadvantaged individuals/groups.

To develop the EDI vision, strategy and plan, the EDI Group has recognised that it needs data on EDI perceptions and

practices across the regions and areas that it operates within. An initial culture survey is currently being developed which will be sent to sections to complete. The data gathered from this initial survey will then be used to develop a detailed EDI culture survey across the membership at a later date.

Using the information generated from the fuller membership survey, The EDI Group will be able to produce a vision statement outlining what the IRSE needs to achieve, priority and its ambition in the area of EDI within two, five and ten year periods.

Professional development

Supporting professional development of IRSE members and prospective members throughout the world is a key objective of the IRSE.

To do this, we have the Education and Professional Development (E&PD) Committee and the Examination Committee working with Judith Ward FIRSE, our Director of Operations, and Zachary Smythe, our Professional Development Officer.

IRSE Professional Exam

The IRSE Professional Exam, now known as the Advanced Diploma in Railway Control Engineering, is a Masters-level academic qualification which tests knowledge and understanding of railway systems with a particular emphasis on safety. Successful exam candidates must pass four mandatory modules.

The Certificate in Railway Control Engineering Fundamentals was introduced in 2020 and covers all aspects of railway control engineering at a foundation level. It is a stand-alone

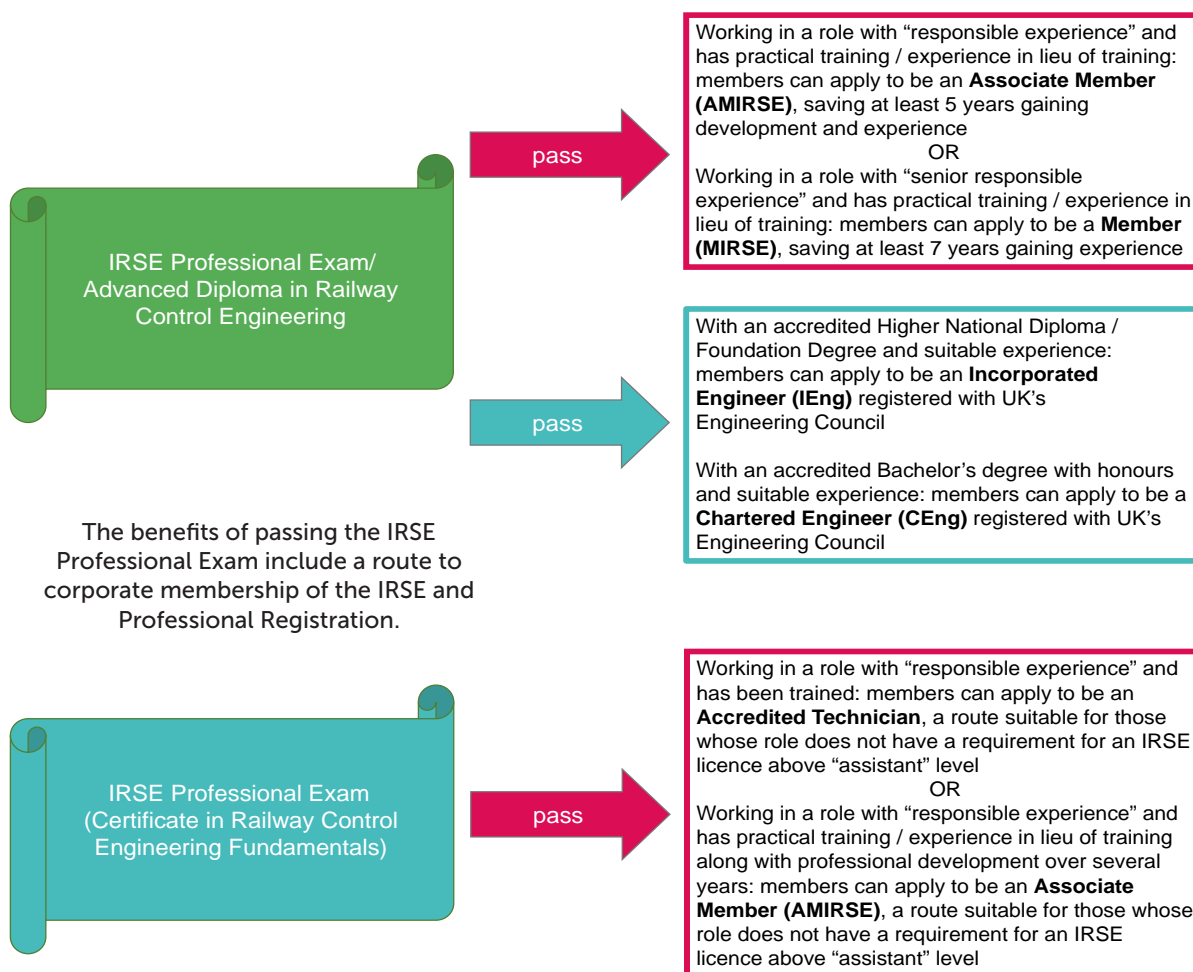
qualification and mandatory module for anyone wishing to pass the Advanced Diploma. It is a valuable qualification for those in the railway control systems industry – for new entrants and those wanting to demonstrate their wider knowledge, as well as for those who are outside our “S&T” industry – those working in other interfacing disciplines, such as rail operations, and/or project management and those who are interested in potentially joining the industry. Candidates for the Certificate do not have to be IRSE members but are encouraged to join and this is hoped to be a ‘gateway’ for many.

Passing the IRSE Advanced Diploma is one route to obtain Corporate membership of the IRSE and it can “top up” engineering or technology qualifications for professional registration with UK’s Engineering Council. Passing the IRSE Certificate is one route to obtain Accredited Technician or Associate Member.

Many volunteers run exam study groups, the independent exam forum website and support the Younger Members’ exam workshops to provide support for prospective examination candidates. All these continued to be run throughout 2022, some in-person or hybrid, most online. Education and Professional Development Committee extend their thanks to all those who contributed their time and efforts to these various learning opportunities.

To enable our exam candidates to sit the exam in 2022, Education and Professional Development Committee agreed to hold the exam remotely again, with 254 candidates sitting at least one module on either 26 March or 1 October, the first year we have held exams twice in one calendar year.

Encouragingly, one of the advantages of the professional exam being online has been the wider geographic reach of the examination. In 2022, candidates sat the exam in 26 countries, many of which are not covered by sections, such



as Brazil, Egypt, Iraq and Spain. The quality of answers from candidates was good, with the overall percentage of those achieving pass grade or higher in the Certificate was 59% and Modules B-D was 50%. It is significant to note that for the Certificate, not only were the number of non-UK candidates significantly higher than UK candidates in October 2022, but also the number of IRSE non-members who passed was higher than IRSE members. All non-members who sit the Certificate are encouraged to become members, particularly those who have passed.

Continuing Professional Development (CPD)

The Engineering Council requires that as of 2020, those who do not engage in the CPD monitoring process are removed from their register.

Information about the importance of developing and maintaining members' professional competence through CPD has continued to be provided through IRSE News and the website.

The IRSE recommends the use of the 'Mycareerpath' system for CPD planning, recording, reflecting and reviewing. More information about Mycareerpath is available on the IRSE website.

Certified courses

The IRSE offers a process by which training providers can have their courses assessed and certificated by the IRSE. Some training providers are in the process of having their signalling and telecommunications courses assessed.

Engineering Technician (EngTech)

- Applies proven techniques and procedures to solve practical engineering problems, and
- Applies safe systems of work

Incorporated Engineer (IEng)

- Maintains and manages applications of current and developing technology, and may undertake engineering design, development, manufacture, construction and operation

Chartered Engineer (CEng)

- Develops solutions to engineering problems using new or existing technologies, through innovation, creativity and change
- May be accountable for complex systems with significant levels of risk

The current Engineering Council UK descriptors for each level of Professional Registration.

Mentoring

Unfortunately, during 2022 Education and Professional Development Committee agreed to stop the IRSE mentoring scheme (not the IRSE licensing scheme mentoring system). However the Education and Professional Development Committee continues to encourage people to support others throughout their careers and seek support from others. This is a key part of keeping industry and corporate knowledge and part of individual's CPD.

Apprenticeships

The IRSE has removed itself from the End Point Assessment Organisation (EPAO) register but continue to support companies and assessment organisations.

Learning materials

Education and Professional Development Committee has updated the textbook synopsis published on the website with a more modern look and feel and to include the very recently published Metro Train Control Systems book. These synopses (now covering 15 volumes) help IRSE members and non-members to find suitable textbooks for their study and information within railway control and communications systems.

Licensing

The IRSE Licensing Scheme provides assurance about the competence of individuals to carry out technical safety critical or safety-related work on rail control systems.

The Licensing Team continued to work largely from home during the year, going into the office primarily to print licence cards. During the year, there was a change to the licensing staff, with Laura Daly in March replacing Sarah Loutfi who moved to a new organisation. Laura then left in September, and her replacement as Head of Licensing, Toby Blamey, starting in January 2023. In addition, Sarah Gillis, the Co-ordinator, left in September being replaced by Lise Marie Ake-Danho in October. The licensing team, consisting of

the Registrar, Deputy Registrar, two licensing scheme Officers and the Co-ordinator, works closely with the Licensing Committee, which is chaired by Colin Porter HonFIRSE and the other sub-committees and within the processes laid down by the scheme procedures. During the year, improvements to the way assessing agencies submit their documentation to the Institution were introduced, and a new licence card was developed, for introduction during 2023.

In 2022 a total of 1241 licences were issued (covering 1383 licence categories) which is a reduction of 236 on the previous year. As at December 2022 there were 5710 active licence holders which represents a slight

decrease in the total no of licences held (5759 at December 2021). The Licensing Scheme now holds full accreditation by the United Kingdom Accreditation Service (UKAS) for all, not just its UK operations, following its four-yearly full re-assessment carried out satisfactorily in March, against the competence standard for bodies involved with the certification of persons: ISO17024:2012. IRSE Assessing Agents are approved and appointed for the purposes of performing assessments of candidates for licences, and they are an essential part of the Licensing Scheme. The number of approved assessing agencies now stands at 23 as EtoE and XRail closed their assessing agencies during 2022.

Membership and Registration

Membership Committee meetings and professional registration interviews continue to be held online using Microsoft Teams. We have had two new members join the Committee this year, Martin Beeton FIRSE and Peter Sheppard FIRSE. The time and contribution of all involved is invaluable to the membership and registration process and is much appreciated. We always welcome additional volunteers to support the process.

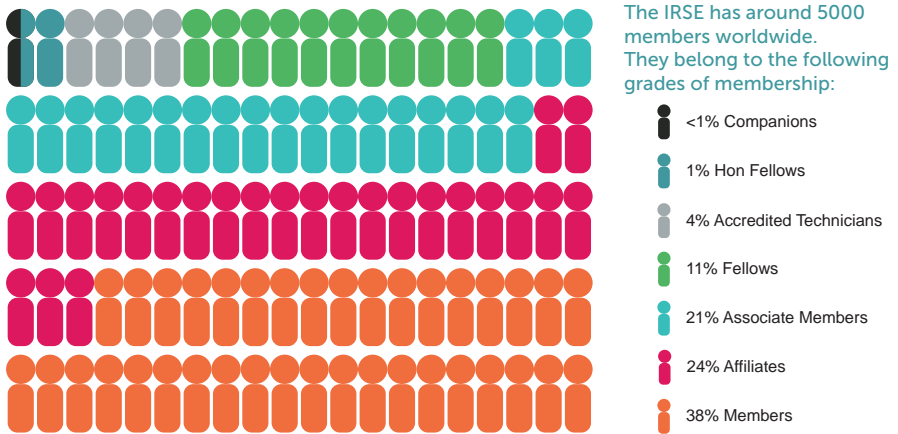
The Membership and Registration Team has continued to improve and strengthen processes to ensure that the data we hold for our members is as up to date as possible and that the Institution collects subscription and other payments relating to services provided to members. Our processing of membership applications and those relating to professional registration has been reviewed and improved to ensure that applications are tracked more efficiently, and applicants receive the best possible support.

We have processed 374 successful new membership applications processed during 2022, 168 for corporate grades and 206 for non-corporate grades. However, 23 of these new members failed to pay their first membership subscription despite several reminders, resulting in their membership being terminated, 22 were non-corporate and one was a corporate grade. The final number of new members joining the IRSE over the year was therefore 351 (167 corporate and 184 non-corporate).

In addition to the new members detailed above there were 69 successful applications from existing members wanting to transfer to a higher grade of membership.

In April 157 memberships were terminated due to non-payment of the 2021/22 membership subscription. However, 50 memberships were then reinstated following late payment of subscription.

There were 111 membership resignations over the year. Although no formal tracking of the reason for someone leaving membership is carried out anecdotally these resignations were due to retirement and people changing direction in their careers.



Membership grade	Members
Affiliate	1246
Accredited Technician	174
Associate Member	1067
Member	1913
Fellow	572
Honorary Fellow Corporate	52
Honorary Fellow Non-Corporate	2
Companion	15

Title	Registered
CEng	169
IEng	91
EngTech	139

Left, number of members by IRSE grade at 31 December 2022.

Above, professional registrations through the IRSE at 31 December 2022.

The Institution was sad to report the deaths of 16 members during 2022, these are listed below.

Many were strong supporters of the Institution and had held membership for a considerable number of years, seven of whom had held membership for more than 50 years. In various ways they had all made significant contributions to the Institution's work and will be missed.

- Leslie Banfield MIRSE
- Roger Bugler (Affiliate)
- Kevin Gould AMIRSE
- Tom Greaves FIRSE
- Clifford Hale HonFIRSE
- David Hamer AMIRSE
- Robert Jahn FIRSE
- Peter Ledger MIRSE
- Alan Leech AMIRSE
- Hans Lindenburg MIRSE
- Brian Mellitt FIRSE
- David Moore (Accredited Technician)
- Anthony Palermo (Affiliate)
- Roger Phelps AMIRSE
- Philip Tuck MIRSE and
- Raymond Westinton MIRSE.

Despite the above deductions the total number of members has still increased by 104 over last year's reported figure, with 5041 members as of 31 December 2022.

During 2022 the Institution has supported a further 52 engineers to achieve professional registration with the Engineering Council, the UK regulatory body for the engineering profession, 9 Chartered Engineers (CEng), 15 Incorporated Engineers (IEng) and 28 Engineering Technicians (EngTech).

As of 31 December the Institution supports 399 professional registrants and the Membership and Registration Team were supporting a further 115 applicants who were at various stages of the registration process.

In 2023 we hope to be able to enhance our support to those who do not hold standard exemplifying qualifications as outlined by the Engineering Council in UK SPEC 4th edition thus providing better opportunity for them to attain professional registration.

Awards

The IRSE makes several awards each year. The majority of these are to recognise, reward and encourage the professional development of engineers, particularly those in the earlier stages of their careers.

The purpose behind this is not simply to assist their career development, but to promote high standards of engineering excellence, thereby contributing to the public benefit objectives of the Institution.

Dell Award

Mike Harvie MIRSE

The Dell award is made annually under a bequest of the late Robert Dell OBE (Past President). It is awarded to a member of the Institution employed by London Underground (or its successor bodies) for achievement of a high standard of skill in the science and application of railway signalling.

The 2022 winner of the Dell award was Mike Harvie MIRSE.

Mike is Head of Signal Engineering at London Underground in the UK. In September 2018, Mike celebrated 40 years working in and around the rail industry, with a specialism in metros

and light rail. Mike's long career started in 1978 when he joined London Underground as a signalling apprentice and went on to gain a degree.

Mike was one of the first to embark on Safety Assuring computer-based signalling systems in the 1980s and focused on what is today the Communication Based Train Control systems on the DLR and parts of the Tube.

He led the acceptance of what was then the most modern CBTC system on DLR and has safely and reliably transported millions of customers for over nearly 30

years, as "Senior Safety Executive", during which time he oversaw the opening of the Lewisham and Beckton extensions.

In 2012, Mike was appointed London Underground's Professional Head of Signals, taking on the Technical Authority with a team of leading Signalling & Control Systems and In 2018, his role was broadened as part of a pan-TfL Engineering organisation. As Professional Head of Road & Rail Traffic Systems, he leads a team of over 200 engineers delivering the engineering solutions to keep London moving.

IRSE-Signet Award

Istvan Darazsi



The IRSE-Signet Award is the most recent of awards, introduced in 2016 and sponsored by Signet Solutions. This Award is given annually to the person who obtains the highest marks in any single module of the IRSE Exam. The Award includes funding for the winner to attend the IRSE Convention.

The 2022 winner was Istvan Darazsi (pictured left receiving the award from Andy Knight FIRSE). István is a Railway Signal Engineer. He graduated as MSc Transportation Engineer in Budapest University of Technology, specialising in Railway Automation.

After working for five years in various domestic signalling and ETCS projects in Hungary as a Project Engineer for Thales, he moved to Ireland in 2019 to work for Iarnród Éireann on the TPS Project to deliver a new train protection system nationwide. Since the project has changed its course towards ETCS Level 1, he has been leading the development of the customer requirement specifications and the concept design.

He applied for an Affiliate Membership of IRSE when he arrived in Ireland, and after receiving the Certificate in Railway Control Engineering Fundamentals, he is now progressing towards the Advanced Diploma in Railway Control Engineering.

Frank Hewlett Bequest and Alan Fisher Memorial Fund

Frank Hewlett AMIRSE died in September 2008 and left a very generous and substantial bequest to the Institution. In 2009 the IRSE Council launched an appeal to establish a memorial fund for Alan Fisher FIRSE, who died unexpectedly during his Presidency of the Institution. The intention was to use the fund to support the development of young S&T engineers, particularly those outside the UK. In normal times the income from the two funds is used predominantly to provide a number of travelling bursaries for younger members from all over the world to support their attendance at major IRSE events. For 2022, the funds paid for free places to be made available to younger members to attend the IRSE International Convention in Glasgow.

Thorrowgood Scholarship

The Thorrowgood scholarship is awarded under a bequest of the late W J Thorrowgood (Past President) to assist the development of a young engineer employed in the signalling and telecommunications field of engineering.

The award is made to a candidate who has excelled in the IRSE Professional Exam and comprises an engraved medallion and funding for an industry-based study tour or alternative professional development activity.

For the 2022 award no candidates achieved the necessary criteria in the 2021 exam.

Presidential programme

Each year the IRSE President plans a programme of major events, comprising a series of high-profile technical papers, the annual Convention and other events as appropriate.

Our President to April 2022 was Ian Bridges FIRSE whose presidential theme was "The age of the Intelligent Railway", and the final three technical papers in his year presented in early 2022 were on the subjects of "Innovating Innovations", "Signalling Systems in Thailand" and "Chinese Metro Train Control".

Andy Knight FIRSE, our President for twelve months from April 2022, chose "Shaping the Future" as the theme for his year and he was delighted that following the pandemic his presidency saw the return of face to face meetings including the 2022 International Convention in Glasgow. Up to December 2022 four papers were presented on the themes of "quality, Diversity and Inclusion – a Female Perspective", "ETCS the Impact on the Signal Engineer", "New Perspectives on Rural Signalling and Train Control" and "Safety Principles of CBTC Systems, Software and Communication"

All the papers are published in our monthly journal, IRSE News, and the presentations are available as webcasts on the IRSE Vimeo channel. Our Presidential presentations are also live streamed where technically possible, available to members and non-members.

London office and personnel

The Institution continued to lease a small suite of offices on the fourth floor of the Institution of Mechanical Engineers (IMechE) building at One Birdcage Walk, London, UK, from where the centrally organised activities of the Institution are managed – membership and professional registration, licensing, IRSE exam and events administration as well as financial administration. However, due some reorganisation by our landlord, the IMechE, some work was undertaken during the year to find alternative central London premises. No suitable, affordable alternative location was found so, after further discussions with the IMechE, agreement reached for the IRSE to move to the fifth floor of the building at One Birdcage Walk. The move took place in time for the office to be ready for January 2023.

For the majority of 2022 staff continued to work from home as they had done during the Covid-19 pandemic. However, from the summer onwards staff have begun to spend some time working in the London office with a view to moving to a hybrid working environment from the beginning of 2023.

Chief Executive

The Chief Executive and General Secretary of the Institution is Blane Judd, a Chartered Engineer and Fellow of the Institution of Engineering and Technology. He is responsible for directing and managing the resources of the Institution to implement the decisions of Council in an efficient manner and in compliance with UK company and charity law. He is accountable to Council and provides

the focal point of contact for other institutions and external organisations, including the UK's Engineering Council, the Royal Academy of Engineering, government agencies, the chief officers of other professional bodies, and the scientific, engineering and technology community. He is also responsible for ensuring compliance with the requirements of the Institution's Articles of Association, Companies House, the Charities Commission and relevant legislation. The Chief Executive is supported by a Senior Leadership Team.

Office team

There have been several staff changes over 2022.

Joiners: Monir Behbin in January as Finance Officer; Lisa Marriner in February as Executive Assistant; Laura Daly in March as Head of Licensing; Zachary Smythe in September as Professional Development Officer and Lise Marie Ake-Danho in October as Licensing Team Co-ordinator.

Leavers: Sarah Loutfi in February, previously Head of Licensing; Deepka Kharaud in June, previously Professional Development Officer; Laura Daly and Sarah Gillis both left in September, previously Head of Licensing and Licensing Co-ordinator respectively.

We would also like to note the sad passing of Hilary Cohen in March 2022. Hilary had worked for the IRSE for 12 years, her last role was as Executive Assistant. Hilary was a central character in the office team and is missed by all her previous colleagues.

Contract support

The following members of the team work on a part-time contract basis.

PR and communication activities have been operated externally by Lindsay Jones of LJPR Ltd. Lindsay is a qualified journalist with an MSc in PR and she is successfully promoting the Institution to a much wider international stakeholder group. We are also receiving support from Howard Elwyn-Jones of Prettybright on a wide range of digital communications activity, which includes video production and filming, webinars, livestreaming of events, the e-bulletin and social media.

Andrew Smith FIRSE is the Institution's Treasurer, with responsibility for the production and monitoring of the budgets and accounts, and for stewarding the health of the Institution's savings and investments, both for the charity and Enterprises accounts.

Debbie Bailey is a Chartered Member of the Chartered Institute of Personnel and Development and was our HR Manager until October 2022 when she handed over the day-to-day HR activity to Polly Whyte. Debbie continues to support us in a reduced capacity as HR Advisor, Polly has picked up the HR Lead role in addition to continuing as Head of Membership & Registration. Sophie Hunter, Membership & Registration Officer has some increased responsibility as a result and Zoe Johnson, Membership Administrator, has increased her working hours to provide additional support.

Section activities

In addition to the Presidential Programme, every year there is a programme of lectures, seminars and technical visits organised by the Institution's 23 sections across the globe. Our sections are in Australasia, China, France, Hong Kong, India, Indonesia, Ireland, Japan, Malaysia, Netherlands, North America, Singapore, Switzerland, Thailand, and Southern Africa. Within the UK, sections cover London & South East, Midland & North Western, Plymouth, Scottish, Western, York and Minor Railways.

The geographical sections vary considerably in size (from around 20 members up to several hundred), and in levels of activity. Each has its own organising committee, elected officers and programme of events. They report annually to the Council on their work. 2022 has been yet another challenging year for our sections. Some have continued to provide virtual meetings, which attract a large number of attendees from beyond the sections' geographical boundaries. Others have begun to meet face-to-face for technical meetings, AGMs and socials. Highlights have included:

Australasian Section: participating in AusRail again and having a face-to-face AGM, technical meeting and social.

French Section: running a technical visit to SNCF-CIM laboratories in Le Mans in June.

China Section: hosting a Presidential lecture in March.

Hong Kong Section: running a number of technical forums online and a face-to-face visit to the MTR light rail depot and high speed rail depot in Tuen Mun.

India Section: organising the successful IRSE International Technical Seminar & Exhibition 2022 in June.

Indonesia Section: roadshows introducing IRSE to stakeholders and inviting them to become members or collaborators.

Irish Section: organising the technical weekend as part of the Presidential programme series in July.

Japan Section: running a number of technical meetings and their AGM.

London & South East Section: running many video technical meetings covering many subjects including Northern Line extension and Gatwick redevelopment projects.

Malaysia Section: working with the University of Kuala Lumpur on the syllabus and teaching of railway control engineering courses.

Midland & North Western Section: running many video technical meetings covering many subjects including Radio-Based Limited Supervision system and trackworker safety.

Minor Railways Section: technical visit and AGM at the Romney, Hythe and Dymchurch Railway in June.

Netherlands Section: hosting the President on his visit in October and International Technical Committee for theirs in June.

North American Section: running the 5th successful CBTC and beyond conference in Toronto in November.

Scottish Section: running another successful annual dinner in March, attended by many across the railway industry and hosting the IRSE International Convention in September.

Southern African Section: running a number of technical meetings covering many subjects including implementation and migration strategy of F-Bane West (Denmark).

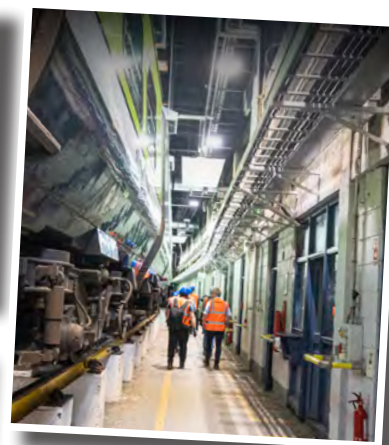
Swiss Section: running a technical visit to Bommersteintunnel and a face-to-face AGM in April.

Thailand Section: hosting a Presidential lecture, a series of short papers, in January.

Western Section: running video and hybrid meetings, including a paper.

York Section: jointly organising the North Eastern Railway Engineers' Forum in September and running another successful annual dinner in October.

Council wishes to extend their sincere thanks to all the Officers, Committee members and all others involved in the operation of the local sections, for the excellent work they undertake in organising technical meetings and other events particularly over the last difficult year. Council also very much appreciates the help and support given by many companies in facilitating and supporting these events. Charles Page FIRSE continues his excellent work in the role of Local Section Coordinator, supporting the sections.



IRSE section activities are varied and well attended. Examples include, clockwise from top left: Scottish Section dinner, Australasian Section committee meeting, Irish Section technical visit, North American Section "CBTC and beyond" conference and York Section dinner.

Younger Members

The IRSE Younger Members Section is open to all IRSE members under 35 years of age, or those who are within the first ten years of being in the industry. The Younger Members section has had online and in person events over the past year, and will continue to do so for the foreseeable future. The events organised by the younger members can be attended by a person of any age and experience but are generally geared towards people who are within the first 10 years of being in the industry. With the online events and online committee meetings we have been able to attract a wider audience from around the globe over the past year and we have even managed to have the first ever non-UK based chair.

In 2022 we ran four successful study days. Three of which took place online and can be found at irse.info/vimeo

The module D Signet study weekend took place in May 2022 and was a great success and the first younger members in person event since March 2020. In total 24 people attended and eight people presented during the weekend. The focus was to look and interact with physical equipment, to take full advantage of the event being in person and to make it stand out from all the online events taking place.

Other events that the younger members hosted over the past year included finishing our series on 'Signalling systems around the world' which was started in August 2021.

We then started a new series 'Back to basics' in September 2022. The back-to-basics series is based on the back to basic articles that have been published in IRSE News and we have, where

possible, arranged for the authors of the articles to present them. The purpose of this series is to assist anyone who is interested in taking the IRSE exams or who would simply like to improve their knowledge on the specific topics. These presentations are approximately 1h long with Q&A session at the end. In total four presentations have already taken place, and seven more presentations are being planned to take place later in 2023.

If anyone would like to get involved, please contact us at younger.members@irse.org. We are always looking for members to get involved from around the world. If anyone would like to be made aware of younger member events in the future the best way is to follow us on our Eventbrite page where all of our events are posted irse.info/ymevents

International Technical Committee

The IRSE's International Technical Committee (ITC) has 20 fully participating and 14 corresponding members from many parts of the world, including Australia, Belgium, Canada, Finland, France, Germany, Ireland, Japan, the Netherlands, Spain, Switzerland, Singapore and the UK. There is also a Younger Member's representative.

The ITC's primary purpose is to provide papers on strategic or technical topics relevant to train control and communications systems in the railway environment. Its particular strength lies in its international membership at a senior level, enabling engineering principles and practices from a diverse range of countries to be brought to bear upon the subjects that ITC covers. The ITC tailors some of its papers to coincide with the presidential theme of the year.

During 2022, the ITC held four meetings. In June we were delighted to meet in person for the first time since the pandemic when we were hosted by the Netherlands Section in Delft.

The meeting was held in Delft University of Technology and members were given a tour of the impressive facilities in the Railway Engineering Department of the Faculty of Civil Engineering and Geosciences (pictured below). The following morning there was a technical visit to PHS Project Rijswijk-Delft at Delft Central Station – where a new tunnel has been constructed to allow additional lines through the area to increase capacity. Some members also took the opportunity to attend the ERTMS Conference "Time to Act", which was held in The Hague that afternoon, and had its introduction by NL State Secretary Vivianne Heijnen.

The activities were much appreciated by the committee and it was great to get together again.

In Glasgow, in September, several members of the committee attended the IRSE International Convention so we took the opportunity to meet in person again before enjoying the week's excellent programme

The ITC completed five papers during 2022, three of which have already been published in IRSE News. Two of the ITC papers are Presidential lectures. There are approximately 17 papers either in progress or planned for the future. All completed ITC papers can be found on the IRSE website within the Knowledge Base (irse.info/kbase). ITC Members also provided expertise for the IRSE Metro Train Control Systems textbook published this year, and the ERTMS textbook that is in progress.



International Convention



The IRSE's 2022 Convention was organised and hosted by IRSE president Andy Knight FIRSE and the Scottish Section in Glasgow, Scotland from 16-20 September. It was the first to be held since 2018. It offered a week of activities for members and guests combining thought provoking presentations with informative and interesting site visits across Scotland.

The IRSE was deeply saddened by the death of Her Majesty Queen Elizabeth II the week before the 2022 International Convention and after careful consideration by the organising committee it was agreed to continue with the Convention based at the Marriot Hotel in Glasgow. There were some respectful changes to the programme and a minute's silence was also held.

Andy welcomed 145 members and guests to Scotland, presenting each delegate with an IRSE branded rucksack containing the Convention tie for the men and a tartan scarf for the women. On Tuesday evening the City of Glasgow hosted a civic reception in honour of the IRSE at the Riverside Museum where delegates enjoyed a finger buffet and a private view of the many fascinating transport exhibits. On Wednesday

evening an optional Ceilidh night was organised.

During the week, visits were made to Highland Spring's new rail freight facility, Network Rail's Larbert Training Centre, Carstairs Junction re-signalling project and the west of Scotland Signalling Centre. Delegates and their guests also enjoyed a visit to the Bo'ness and Kinneil heritage railway and museum which included the hydrogen train project exhibit, followed by a boat trip on the Firth of Forth to see the iconic Forth rail bridge and the two road bridges.

Eight technical papers were presented across two days during the Convention. On Tuesday, Jim McLeary and Carole Markou AMIRSE of Network Rail, and Philip Carachi from Siemens Mobility gave an introduction to the Carstairs site followed by a presentation from Ben Pugh of Siemens Mobility on the Trackguard Westrace Trackside System (WTS) at Carstairs which is the first WTS system to be installed in Scotland. John Richmond from Park Signalling spoke on 'Lower cost signalling solutions' and Robert Gardner from Network Rail updated delegates on the latest Network Rail innovations. On Wednesday, Stephen Wright MIRSE from Siemens Mobility's

presentation covered 'Ways S&T can support the decarbonisation of the railway,' followed by Ian Rae from Brodie Engineering who briefed delegates on the 'Hydrogen Train project' in advance of the visit to the Hydrogen Train planned for the next day. Usman Ali of The Strathclyde Partnership for Transport (SPT) gave a presentation on the 'Rebuild of the Glasgow Subway' and then Lynsey Hunter MIRSE, regional asset manager for signalling in Scotland gave the final Convention paper on 'Signalling in Scotland and in particular the importance and challenges of signalling asset management'.

A guest programme organised by the president's wife Isobel and Johanna Allan, wife of the organising committee's chairman Peter Allan FIRSE included tours of the Falkirk wheel, the Kelpies and a visit to the New Lanark UNESCO World Heritage site.

The Convention ended on Friday evening with a gala dinner. The President thanked the organising committee for all their hard work in organising the week's events and visits, in particular Paul Booth FIRSE and Peter Allan FIRSE, and the sponsors for their generous contributions.

Annual General Meeting

The IRSE's 108th Annual General Meeting, chaired by the retiring President, Ian Bridges FIRSE, was held at the Derby Conference Centre on 21 April 2022. There was an overall attendance of 154 which was a mixture of online and in person.

In accordance with the Memorandum and Articles of Association all ordinary business was concluded at this meeting, and it was resolved to appoint HPH Chartered Accountants for 2022.

After conducting the formal business of the AGM, Ian commented on the Annual Report for 2021 (published on 1 April 2022), and in the absence of the Treasurer, Andrew Smith FIRSE, Blane Judd CEO and Secretary commented on the Accounts for 2021.

The membership received copies of the Annual Report for 2021 (published on 1st April 2022), and there being no comments or questions received through correspondence this report was adopted.

Ian announced that the ballot for the election of members to Council had resulted in the following being elected:

Fellows: Prof Clive Roberts (UK), Pete Gracey (UK), Harvinder Bhatia (UK) and Gordon Lam (Hong Kong).

Members: Robert Cooke (Singapore), Paul McSharry (UK), and Firas Al-Tahan (North America).

Associate Member. Xiaolu Rao (Switzerland).

Ian welcomed Pete Gracey FIRSE to Council and expressed grateful thanks to George Clark FIRSE who retired from Council.

IRSE Council

IRSE Council 2022-2023	
President	Andy Knight FIRSE
Vice Presidents	Steve Boshier FIRSE, Jane Power FIRSE, Yuji Hirao FIRSE
Members of Council from the class of Fellow	Peter Allan FIRSE, Ian J Allison FIRSE, Harvinder Bhatia FIRSE, Bogdan Godziejewski FIRSE, Peter Gracey FIRSE, Gordon Lam FIRSE, Rod Muttram FIRSE, Clive Roberts FIRSE, Andy Stringer FIRSE
Members of Council from the class of Member	Firas Al-Tahan MIRSE, Rob Burkhardt MIRSE, Rob Cooke MIRSE, Jane Copperthwaite MIRSE, Ryan Gould MIRSE, Paul McSharry MIRSE
Members of Council from the class of Associate Member	Georgina Hartwell AMIRSE, Xiaolu Rao AMIRSE, Keith Upton AMIRSE
Co-opted Past Presidents	Ian Bridges FIRSE, Charles Page FIRSE, Daniel Woodland FIRSE
Chief Executive	Blane Judd
Treasurer	Andrew Smith FIRSE



Members' Lunch

The 24th Annual IRSE members lunch took place on 20 July 2022 at the Union Jack Club in London.

Organised once again by Past President Clive Kessell HonFIRSE who instigated the lunch as part of his presidency, the event was attended by 47 members including eight past presidents. Due to the rail disruption on the day caused by an unseasonal heatwave, 21 other members were unable to attend.

After a welcome from Clive, IRSE President Andy Knight FIRSE gave a brief overview of his presidential theme of "shaping the future" and underlined the pivotal role the Institution has to play in providing the support to assist in the recruiting and training of engineer of the future. He also updated members on plans for the upcoming Convention and played the trailer for IRSE10///.

Blane Judd, CEO of the IRSE gave a "State of the Nation" update. He reminded the group of how accidents relating to signalling deficiencies in the early days of the IRSE had influenced the much-needed safety improvements that the Institution still continues to support today.

He reflected that in 1912, the Institution membership only embraced eight countries whereas nowadays with 5000 members, half of these are located in 52 countries outside of the UK.

The lunch was also an opportunity for the President and Managing Director of Signet Solutions to present the Signet Award to Istvan Darzsi, who is originally from Hungary but now works with Irish Rail. Regrettably, Mike Harvie MIRSE, the Dell Award winner was not able to attend as he was one of those affected by the travel disruption.

Annual Dinner

After a two year enforced break by the Covid-19 pandemic, the 56th Annual Dinner was held at The Landmark Hotel in Marylebone, London on Friday 13 May. The event was generously sponsored by Alstom and was a sold out event with 300 diners. As no Annual Dinner could be held in 2020 or 2021, president Andy Knight shared host duties with Past Presidents from those years, Ian Bridges and Dr Daniel Woodland.

The President's guest of honour was the Minister of State, Department for Transport Wendy Moreton MP and the keynote speaker was LNER managing director David Horne. Once again, the nominated charity for the event was RedR UK, a disaster

relief charity which matches volunteers with technical skills to assistance tasks in response to disasters across the world. A collection at the dinner raised £2897 for this charity. The IRSE Annual Dinner has been at capacity for several years with potential attendees having to be declined. Exploration and assessment of options was initiated in autumn 2022 and as a consequence the 57th Annual Dinner in 2023 will be held at the DeVere Grand Connaught Rooms in central London on 11 May. This venue has the capacity for us to expand towards its capacity of 500.

Collaboration

The IRSE continues to develop both formal and informal working relationships with engineering and railway organisations in the UK and, either directly or through its sections, with organisations in other parts of the world. At present there are ongoing discussions with representatives in Australia, Canada, India, Israel, and Malaysia.

The networking activity with the sector has started again after the delays imposed by Covid-19, although there are still a few meetings taking place using virtual means. There have been exciting opportunities to meet businesses in India at the conference held in Delhi and in Canada during the CBTC conference.

In the coming year we will continue to focus on our strategic intent to strengthen our engagement with external bodies, including not only rail industry companies, but also other relevant organisations. The Institution enjoys good working relationships with, and support from, many companies,

but our ambition is to grow this further for mutual benefit. We will watch with interest the development of Great British Rail and be ready to support and comment as details emerge.

We remain active members of the Rail Engineer Forum. This body is made up of representatives from all the Professional Engineering Institutions who have a rail interest and includes, IMechE, IET, ICE, PWI, CIRO, INCOSE, CILT, RCEA and the Young Railway Professionals (theref.org.uk). Andrew Skinner of GWR of IMechE is the current chair. We maintain a close link with the Rail Industry Association UK (RIA) to ensure that where possible the two bodies are working closer together to link professional employees working in professional businesses. This working relationship is help IRSE and RIA to identify where we can together make a difference in the rail sector.

The activities of both the Royal Academy of Engineering and Engineering UK continues to underpin or activities to encourage young people to consider

a career in an engineering related discipline. Through these collaborations we can have a greater impact than we would in isolation.

We work closely with the UK's Engineering Council for the regulation of engineers and have seen a growth in the number of members coming forward for professional registration. The IRSE is a licensed body of the Engineering Council and is thus licensed to register Chartered Engineers, Incorporated Engineers and Engineering Technicians. In the last year we have had increased international interest in professional registration, which is to be welcomed.

As part of our drive to address the gender balance in the sector we have engaged with representative groups through the equality, diversity and inclusivity group led by Council member Harvinder Bhatia. This group is looking at how the sector can better attract a wide range of people from differing backgrounds and cultures.

Publications and communications

For most of IRSE members across the world in 2022 the Covid-19 pandemic was over, enabling a welcome return to local sections and Institution face to face events including Convention, the Annual Dinner and Members Lunch. However, thanks to the digital capabilities we developed during the pandemic which gave all members access to on-line Presidential programme events and other content via the IRSE Vimeo channel, we continued to offer online access to major presentations alongside the option to attend in person throughout 2022. Moving forward, this hybrid form of event delivery will remain a key aspect of the IRSE communications strategy.

IRSE News

IRSE News is published monthly in both print and digital formats, its purpose being primarily to inform IRSE members worldwide about industry news, technical developments, and the work and activities of the IRSE and its sections. Papers that comprise the presidential programme are published in IRSE News, together with a wide range of other internationally sourced educational papers and articles. We'd like to extend our thanks to the dedicated and hard-working editorial production team led by Managing Editor Paul Darlington FIRSE and Production Manager Mark Glover FIRSE for another excellent year.

IRSE10///

President Andy Knight FIRSE launched IRSE10///, a series of expert-led ten minute talks called on aspects of train control and communication aimed at newcomers to the industry and those interested in finding out more about this field of engineering. Six episodes were produced, all of which are available online the IRSE Vimeo channel.

Proceedings

The Proceedings provide a summary of the Institution's activities and have been produced annually since the very first issue in 1913. A hard copy of the Proceedings is supplied to the British Library and to the library of the Institution of Engineering and Technology and PDF versions of the Proceedings are available for all to read via our website.

Website

The website provides details of Institution events, sections, information about the governance and operation of the IRSE, material for members taking the IRSE professional exam, how to



become a member, as well as a wealth of information relating to professional development. Members (and registered non-members) can update contact details, book events, order publications, and pay their subscriptions online.

Video

All of the Presidential papers, section lectures and events recorded for online viewing were added to the IRSE Vimeo channel which now hosts a collection of 245 videos. During 2022, the IRSE Vimeo channel received 19,100 views from across the world, representing a total of 281 days, 18 hours, five minutes and 29 seconds of viewed IRSE content. The top five countries by viewership were UK (33%), India (15%) Australia (10%) and the USA.

E-Communications

A monthly email bulletin is sent to all members, containing information about upcoming events and other topical information. In addition, we send out ad-hoc electronic communications to members highlighting key presidential events and other important information.

Social Media

The Institution has a social media presence on LinkedIn and Twitter which play a key role in promoting our activities and signposting our content. Key events, presentations and topical news stories are posted on all these feeds on a regular basis to help keep members informed and raise the profile of the Institution amongst the wider railway industry. LinkedIn remains our key social media network and this channel has seen a 100% increase in both followers and engagement in the last 12 months.

As of February 2023 the IRSE page has 11,401 followers and during the previous 12 months clicks went up by 10,000. Top posts included the launch of the new Metro Handbook (4,500 impressions with 263 clicks) and the IRSE10/// talk delivered by Disney Schembri from Siemens Mobility (4,191 impressions and 163 link clicks). Our Twitter audience continues to grow acquiring 96 new followers and reporting an increase of engagement of over 100%. Top posts were a post on the Glasgow Convention and posts on IRSE10/// and Presidential Programme papers on demand. Due to technical access issues our Facebook page has been inactive and we are in the process of setting up a new page for the IRSE.

Publications

The IRSE publishes a range of books on railway train control and communications systems, which provide a useful source of educational material for those relatively new to the profession, as well as providing a valuable record of the development of signalling. The long awaited Metro Train Control Systems textbook was published this year and demand for copies has been high. The Institution would like to thank the team led by Claire Porter HonFIRSE for all of their hard work in preparing this book which is available to purchase via the IRSE website.

Library

Members of the Institution are permitted to use the library of the Institution of Engineering & Technology in London by appointment, and there is also an archive collection of publications available on request at the IRSE's London offices.

IT systems

The four major IT components that support the Institution's operations are the Membership and Licensing customer relationship management system (often referred to as Silverbear CRM), the website, the exam platform, and the office IT systems.

We continue to use the full suite of Microsoft products in the cloud and use Microsoft Teams as both a virtual meeting product and as a VoIP for our phone system.

The membership offering through the website includes the ability to access member only information and allows the checking of membership and licensing validity with real time reports. The library of video content available on the IRSE Vimeo channel increases regularly. We

also encourage members to update their personal and employment details online using the web portal.

The increased use of virtual meeting platforms has seen a large increase in membership engagement. We hold meetings at different times of the day to acknowledge members' the international time differences.

The move to an online offering for the IRSE exams, has seen an increase in the numbers of candidates. The software used as the exam platform is enhanced by two additional packages that monitor the candidates. The first monitors the surrounding so that cheating or looking up reference material is captured (known as proctoring software). The second is an anti-plagiarism checker that makes sure

candidates submit their own work and not copy and paste for example. These two packages have been used to good effect and helped support the team of volunteer markers when looking to rule out any cheating. Transgressors have been sanctioned by Council resulting in removal or downgrading of membership, or a ban from taking the exam for a defined period.

The ability of the volunteers, members, and staff to adapt and embrace the ever-changing pace of IT infrastructure is to be commended. Without their support the Institution would not be able to advance to keep up with the changes necessary to be relevant as a professional body for the 21st century.

Finances

The financial results are shown on pages 20 to 24. They are extracted from the consolidated accounts for the IRSE and its wholly owned trading subsidiary, IRSE Enterprises Limited. The term 'Group' at the top of a set of tables refers to the two companies combined, and 'Charity' to the IRSE alone. As far as possible, these extracted results use the titles and the format of the consolidated accounts.

For several years now it has been reported that the increase in Total Charity Funds has hidden the fact that we had made a loss on the activities of both IRSE and IRSE Enterprises, with the increase in value of our investments being larger than the loss. It was also reported that we had been looking at what actions we needed to take to address this position. The conclusion of this work was that the issue was too large to be addressed in one year and there would need to be significantly larger increases in subscription rates

and licensing prices than inflation might suggest. As a result, 2022 was the first step in this process and the progress for IRSE Enterprises can be seen in Note 8 where the net figure before the gain/loss on investments shows a much smaller loss than in 2021. For the whole group appears in the Consolidated Statement of Financial Activities where the loss has reduced from £80,689 to £65,436. The improvements are better than the budgets for 2022 suggested, bolstered by the outstanding effort of the Membership team to get subscriptions in on time. The further planned increases in 2023 are designed to complete this process.

One item that has sadly not helped the IRSE Enterprises results is the £10,000 seed-funding we provided for the organisation of the International Technical Seminar in India during the summer. This was due to be returned to IRSE Enterprises following the event, but we are still waiting for it to arrive. We are actively working to recover this money

and believe it will, eventually, arrive, but the timing is unclear and it was therefore considered prudent to not make any provision in the accounts for this.

The ability to travel has brought with it an increase in IRSE costs. Historically, the President would receive significant funding from their employer to allow them to visit parts of the Institution away from their local area. These days, whilst it is generally possible to raise some sponsorship for this, there is an increasing need for the Institution to cover the cost of the President attending events. This is always included in the budget so that we are aware of the impact on the IRSE finances and the Presidents work hard to combine as many activities into one trip as possible to minimise the costs. However, as anyone who has travelled recently will be painfully aware, costs have increased significantly, and this will have an impact on our budgets in the future.

Consolidated accounts (extract)

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS CONSOLIDATED BALANCE SHEET AS AT 31st DECEMBER 2022

	Notes	Consolidated 2022 £	Consolidated 2021 £	Charity 2022 £	Charity 2021 £
Fixed Assets					
Tangible fixed assets		46,972	4,180	22,017	3,186
Investments	1	1,803,443	2,206,609	1,338,037	1,613,264
Total fixed assets		1,850,415	2,210,789	1,360,054	1,616,450
Current Assets					
Stocks	3	66,701	58,091	55,970	55,456
Debtors	4	190,770	165,442	249,267	295,779
Investments	5	211,198	211,177	211,198	211,177
Cash at bank and in hand		272,184	362,093	93,062	119,347
Total current assets		740,853	796,803	609,497	681,759
Creditors:					
amounts falling due within one year	6	(500,686)	(463,923)	(286,795)	(274,140)
Net current assets		240,167	332,880	322,702	407,619
Total assets less current liabilities		2,090,582	2,543,669	1,682,756	2,024,069
Creditors:					
amount falling due after more than one year	7	(275,756)	(246,490)	-	-
Total net assets		1,814,826	2,297,179	1,682,756	2,024,069
Funds of the Charity	2				
Unrestricted funds		1,775,906	2,260,019	1,643,836	1,986,909
Restricted funds		38,920	37,160	38,920	37,160
Total charity funds		1,814,826	2,297,179	1,682,756	2,024,069

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS CONSOLIDATED CASH FLOW STATEMENT AS AT 31st DECEMBER 2022

	2022 £	2021 £
Net cash (used in) operating activities	(66,139)	(32,284)
Cash flow from investing activities:		
Purchase of tangible fixed assets	(47,988)	(2,220)
Purchase of fixed asset investments	(283,555)	(150,500)
Sale of fixed asset investments	269,093	273,112
Interest received	3,780	4,060
Dividends received	34,900	31,459
Net cash provided by / (used in) investing activities	(23,770)	155,911
Change in cash and cash equivalents in the year	(89,909)	123,627
Cash and cash equivalents at start of year	362,093	238,486
Cash and cash equivalents at end of year	272,184	362,093

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS
CONSOLIDATED STATEMENT OF FINANCIAL ACTIVITIES AND INCOME AND EXPENDITURE
ACCOUNT FOR THE YEAR ENDED 31st DECEMBER 2022

	Notes	Unrestricted £	Restricted £	Total 2022 £	Total 2021 £
Income and Endowments from:					
Charitable activities:					
Donations and legacies	9	12,512	-	12,512	8,901
Other trading activities:					
Non-ancillary trading income	10	517,598	-	517,598	346,358
Other activities	10	583,214	-	583,214	528,073
Investments:					
Investment income	11	37,969	711	38,680	35,519
Total Income		1,151,293	711	1,152,004	918,851
Expenditure on:					
Raising Funds	12				
Other activities		7,599	-	7,599	6,070
Investment		8,844	-	8,844	9,208
Non-ancillary trading		541,863	-	541,863	403,600
		558,306	-	558,306	418,878
Charitable activities	12				
Awards		30,117	-	30,117	19,026
Promoting best practice		628,306	-	628,306	561,636
		658,423	-	658,423	580,662
Total Expenditure		1,216,729	-	1,216,729	999,540
Net Expenditure before (loss) / gain in investments		(65,436)	711	(64,725)	(80,689)
Net (loss) / gain on investments		(418,677)	1,049	(417,628)	258,106
Net Income / (Expenditure)		(484,113)	1,760	(482,353)	177,417
Reconciliation of funds					
Total funds brought forward		2,260,019	37,160	2,297,179	2,119,762
Total Funds Carried Forward		1,775,906	38,920	1,814,826	2,297,179

ANNUAL MEMBERS' REPORT WITH SUPPLEMENTARY MATERIAL

The tables set out on pages 16 to 20 are extracted from the full audited accounts of the Institution for the year ended 31 December 2022. They constitute supplementary material to this Annual Members' Report. Section 426A of the Companies Act 2006 requires the following statements to be made in respect of the supplementary material:

1. This annual report is only part of the company's annual accounts and reports prepared under the Companies Act.
2. A full copy of the company's annual accounts and reports may be obtained upon request from The Institution of Railway Signal Engineers, 1 Birdcage Walk, Westminster, London SW1H 9JJ, UK.
3. The auditor's report on the annual accounts was unqualified.
4. The auditor's statement under section 496 of the Companies Act (whether the Trustees' Report is consistent with the accounts) was unqualified.

A P Smith
Treasurer

Approved by the Trustees on 23 March 2023.

A Knight
President
Director and Trustee

SW Boshier
Vice-President
Director and Trustee

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS
NOTES TO THE CONSOLIDATED ACCOUNTS
FOR THE YEAR ENDED 31st DECEMBER 2022

1 Fixed Asset Investments (Group)

	Equities £	Government Securities £	Total £
Market value			
At 1 January 2022	2,000,965	205,644	2,206,609
Additions	201,291	82,264	283,555
Disposals	(182,978)	(86,115)	(269,093)
Revaluations	(360,573)	(57,055)	(417,628)
At 31 December 2022	1,658,705	144,738	1,803,443

2 Movement in Funds (Group)

	At 1.1.22 £	Net movement in funds £	At 31.12.22 £
Designated funds			
Scholarship Fund	78,315	3	78,318
Alan Fisher / Frank Hewlett Fund	430,288	3,206	433,494
General Development	307,000	-	307,000
Future ASPECT Conference	10,000	-	10,000
International Convention	27,500	-	27,500
Textbook Preparation	7,500	-	7,500
General Fund - Unrestricted fund	1,109,800	(346,284)	763,516
IRSE Enterprises - Non-charitable trading fund	289,616	(141,038)	148,578
	2,260,019	(484,113)	1,775,906
Restricted funds			
Dell Bequest	24,064	1,355	25,419
Thorowgood Bequest	13,096	405	13,501
TOTAL FUNDS	37,160	1,760	38,920

The company holds 20% or more of the issued share capital of the following company:

<u>Company</u>	<u>Country of incorporation</u>	<u>Share class</u>	<u>%age owned</u>
IRSE Enterprises Limited	England and Wales	Ordinary	100

	<u>Share capital and reserves</u>	<u>Profit for year</u>
IRSE Enterprises Limited	136,803	(140,720)

3 Stock	Consolidated 2022 £	Consolidated 2021 £	Charity 2022 £	Charity 2021 £
Stock	66,701	58,091	55,970	55,456

4 Debtors	£	£	£	£
Trade debtors	77,076	67,078	-	-
Other debtors	3,435	4,964	3,333	4,964
Pre-payments and accrued income	15,900	16,529	-	-
VAT	94,359	76,871	81,213	63,292
Amounts owed by group undertakings	-	-	164,721	227,523
	190,770	165,442	249,267	295,779

5 Current Asset Investments	£	£	£	£
National Savings	211,198	211,177	211,198	211,177
	211,198	211,177	211,198	211,177

6 Creditors: amounts falling due within one year	£	£	£	£
Trade creditors	39,925	53,457	28,901	45,749
Accruals	26,697	21,547	22,429	17,008
Deferred income	427,036	382,197	230,178	206,682
Other creditors	7,028	6,722	5,287	4,701
	500,686	463,923	286,795	274,140

7	Creditors: amounts falling due after one year	Consolidated 2022 £	Consolidated 2021 £	Charity 2022 £	Charity 2021 £
	Other creditors	275,756	246,490	-	-

Representing the proportion of licence fees received which will be credited to Income after more than one year.

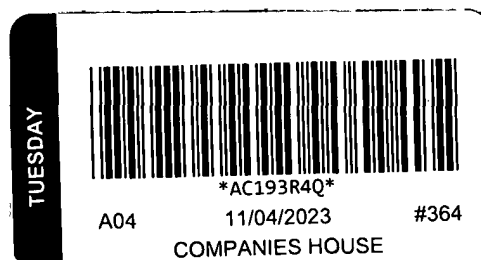
8	Activities of IRSE Enterprises	2022 £	2021 £
	<u>Turnover</u>		
	Donations	307	-
	Proceeds - Conventions and Conferences	92,340	-
	Proceeds - Dinners	46,600	-
	Proceeds - Technical visits and Seminars	34,370	22,332
	Licensing - Licence fees received	214,786	200,048
	Licensing - Audit fees	6,068	5,761
	Licensing - Assessing agents fees	107,791	106,887
	Licensing - Technical publications	15,336	11,330
		517,598	346,358
	<u>Cost of sales</u>		
	Costs - Conventions and Conferences	71,371	(1)
	Costs - Dinners	38,926	-
	Costs - Technical visits and Seminars	37,053	18,556
	Costs - Young members' Seminars and Visits	-	-
	Licensing - Logbooks opening stock	2,635	6,444
	Licensing - Engineer's fees	14,866	14,503
	Licensing - IRSE administration charges	232,531	219,980
	Licensing - Audit engineers	38,872	44,959
	Licensing - Accreditation	12,712	12,014
	Licensing - Logbooks closing stock	(10,732)	(2,635)
		438,234	313,820
	Gross profit	79,364	32,538
	<u>Other income</u>		
	Dividends receivable	7,153	7,266
	Bank interest receivable	613	7
		7,766	7,273
		87,130	39,811
	<u>Expenditure</u>		
	IRSE Admin charges	21,598	22,879
	Telephone	7,788	8,122
	Post and stationery	6,875	2,880
	Officers' expenses	-	-
	Accommodation and refreshments	688	105
	Computer costs	12,113	7,580
	Professional indemnity insurance	3,741	3,099
	Licensing - Treasurer's, Chief Executive's and Registrar's Fees	33,503	36,782
	Logbook purchases	10,597	-
	Investment Manager's fees	3,872	4,042
	Auditor's remuneration	2,080	2,000
	Exchange rate variance	(3,607)	15,271
		99,248	102,760
	<u>Finance costs</u>		
	Licensing - Bank charges	4,381	2,291
	Net figure	(16,499)	(65,240)
	<u>Gain / Loss on revaluation of assets</u>		
	Gain on revaluation of investments	(124,539)	101,087
	Net profit	(141,038)	35,847

9	Donations and Legacies (Group)				2022	2021
					£	£
	Donations				12,512	8,901
10	Other Trading Activities (Group)					
						£
	Subscriptions				495,058	451,423
	Professional reviews				6,870	7,710
	Advertising				3,900	13,513
	Booklets and text books				22,030	8,943
	IRSE ties, badges & cufflinks				-	64
	Examination fees and materials				53,205	44,920
	Proceeds from members' lunch				2,151	1,500
	Consultancy income				-	-
	IRSE Income				583,214	528,073
	Trading income:					
	Turnover of trading subsidiary - Note 8				517,598	346,358
11	Investment Income (Group)					
	Equities and government stocks				27,747	24,193
	Interest receivable				3,167	4,053
	IRSE Enterprises Ltd				7,766	7,273
					38,680	35,519
12	Analysis of Expenditure	Staff Costs	Depreciation	Other	2022	2021
		£	£	£	£	£
	Raising funds					
	Other activities	2,285	17	5,297	7,599	6,070
	Investment	-	-	8,844	8,844	9,208
	Non-ancillary trading	184,191	3,520	354,152	541,863	403,600
	Total raising funds	186,476	3,537	368,293	558,306	418,878
	Charitable activities					
	Awards	9,141	67	20,909	30,117	19,026
	Promoting best practice	217,109	1,592	409,605	628,306	561,636
	Total charitable activities	226,250	1,659	430,514	658,423	580,662
	Total expenditure	412,726	5,196	798,807	1,216,729	999,540
13	IRSE Charitable Expenditure				2022	2021
					£	£
	Raising donations and legacies					
	Fund raising dinners				2,386	1,388
	Consultancy				-	-
	Charitable activities					
	Proceeding: editing and printing				2,000	4,511
	Newsletter: editing and printing				109,415	101,777
	Booklets and textbooks				10,221	3,766
	IRSE ties, cufflinks and badges				109	-
	Prizes				26	25
	Awards				9,264	300
	Activities funded by country subscription supplements				9,277	7,641
	Professional review costs				2,018	(820)
	Support costs					
	Staff costs				235,591	215,802
	Office rent and services				18,524	18,524
	Fees and honoraria				97,473	89,488
	Membership database					-
	Other administrative costs				163,881	130,900
	Investment manager's fees				8,844	9,208
	Fixtures and fittings				1,676	9,429
	Governance costs					
	Auditor's remuneration				4,160	4,000
	Total expenditure				674,865	595,939

Registration number: 0125685

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS
(Charity number: 1046999)

ANNUAL REPORT AND FINANCIAL STATEMENTS
for the year ended
31 December 2022



HPH
Chartered Accountants
54 Bootham
York
YO30 7XZ

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

The trustees, who are also directors of the charity for the purposes of the Companies Act 2006, present their report with the financial statements of the charity for the year ended 31 December 2022.

The Charity is a Public Benefit Entity.

The Financial Statements comply 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 Financial Statements in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019).

STRUCTURE, GOVERNANCE AND MANAGEMENT

The Institution is a Company Limited by Guarantee and governed by its Memorandum and Articles of Association, last amended on 22nd April 2021. Trustees are members of the Institution and elected by the membership following their proposal by members or the governing Council of the Institution.

The Institution is managed by its Council, which is headed by the President, assisted by the Senior and Junior Vice Presidents. Its other members are other suitably elected and co-opted individuals drawn from the various grades of membership. The Council constitutes committees to assist in the operation of the Institution as it sees fit. Currently, for the general management of the Institution there is a Management Committee, consisting of the President, Vice Presidents, one or more past Presidents, a number of ordinary members of Council, along with the Chief Executive and Treasurer, and Finance Committee, consisting of the President and Vice Presidents, the previous President, the Chief Executive and Treasurer and one ordinary member of Council.

There is no formal training of trustees, but they are periodically provided with the current version of the Charity Commission document 'Charities and Investment Matters: A Guide for Trustees'. Formally, all decisions related to the operation of the Institution are made by the Council. Often, these decisions are based on recommendations from subsidiary committees, particularly Finance and Management. Staff involvement is only related to low-value day to day purchases for the efficient operation of the Institution.

Staff salaries are agreed by Finance Committee on the recommendation of the Chief Executive. A small number of the senior management are contracted to the Institution. Their remuneration is likewise agreed by Finance Committee on the Chief Executive's recommendation, with the exception of the Chief Executive, where the remuneration is at the discretion of the trustees on Finance Committee. The benchmark taken for proposals is generally based on the ruling CPI as published by the Government in October.

The Institution's operating subsidiary is IRSE Enterprises. Its managing board has the Treasurer, President, Vice Presidents, immediate past President, and a Council representative as directors.

OBJECTIVES AND ACTIVITIES

Public Benefit

The Institution's objects and principal activities continue to be the advancement of the science and practice of signalling and railway telecommunications for the public benefit by the promotion of research, the collection and publication of educational material and the holding of conferences, seminars and meetings, the maintenance of high standards of practice and professional care amongst those working within the industry and the promotion of improved safety standards for the protection of the general public. The trustees have complied with the duty in section 17 of the Charities Act 2011 to have due regard to public benefit guidance published by the Charity Commission.

Custodian Trustee Disclosures

No assets were held by any trustee or by the Institution on behalf of any other charity.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

OBJECTIVES AND ACTIVITIES - continued

Regular Activities

The Institution's main fund raises money by way of subscriptions, joining fees and donations. The Institution issues a magazine to its members 11 times a year, containing papers, articles and other information pursuant to the Institution's objects. It also sells technical papers and books it publishes itself or buys for re-sale.

The Institution usually organises a number of technical meetings, conferences, seminars and dinners, for some of which it makes a charge. These provide a forum for discussion and the transfer of knowledge. Following the COVID-19 pandemic experience, most were filmed and made available at the time and subsequently through an on-line video link. Some meetings were also available to attend live, but attendance figures have been very low. In addition, the Annual Dinner returned in April and a Convention was held in Glasgow during September.

The Licensing scheme, run through the subsidiary IRSE Enterprises, provides accreditation to individuals and organisations within the industry after having complied with certain laid-down standards. Fees are charged for these activities. Licences issued are for a 5-year period so one-fifth of the income is credited each year to the Income and Expenditure account, the balance being carried forward as a liability in the Balance Sheet.

Whilst no formal criteria are applied to measure the success or otherwise of all charged events, there is an expectation they will, at least, break even, whilst for free events a visibly full venue or significant on-line viewing is considered a success. It is noted on-line attendance has exceeded expectation and engaged a wider geographical spread, assisting in promoting the charitable objects. Consideration is being given to normally have the free events on-line only. In the case of the Institution's exam, the criterion is a suitably high pass-rate.

The Institution is a fully nominated Body of the Engineering Council licensed to register Chartered Engineers, Incorporated Engineers and Engineering Technicians.

GRANT-MAKING

Bursaries are allocated based on an application form and interview by senior Institution members. In 2022 9 were given linked to the Glasgow Convention. Prizes are based on documented criteria, some depending on suitable success in the Institution's exam.

VOLUNTEERS

Volunteers provide considerable assistance in the operation of the Institution, both in its local sections and technical societies, where the objects mirror those of the Institution itself, and centrally, to provide a source of expert input and background assistance. This applies, particularly, in the operation of the Institution's professional exam and the production of the Institution's magazine, IRSE News.

SOCIAL INVESTMENT

No financial social investment is undertaken, but the high-level objective regarding the maintenance of high standards and the promotion of safety standards is directed towards the protection of the general public whilst on or near railways.

FUNDRAISING

No fundraising activities are undertaken by the Institution.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

ACHIEVEMENTS AND PERFORMANCE

With the reduction in Covid-19 infections and relaxation of restrictions, most of the normal calendar events returned in 2022. This, and pre-planned above inflation increases in subscription rates, would appear to have started to have the desired effect of returning the IRSE to operating breakeven. The IRSE Exam will continue on-line. After issues in 2021, the multiple-choice Module A was held twice in 2022. The success means this will be repeated in 2023. The planned programme of lectures (provided through on-line platforms) was supplemented by the Annual Dinner, a Convention, a seminar in Toronto and a Technical Visit to Ireland.

Beyond the events discussed above, there are no specific fundraising activities. No expenditure has been incurred to raise that income, beyond that involved in the organisation of the events themselves.

FINANCIAL REVIEW

The results of the Institution are set out in the Consolidated Statement of Financial Activities and Income and Expenditure Account which may be found on page 12.

The net deficit of the group for the year before fair value adjustments to the carrying value of investments was £64,725 (2021: £80,689) and total funds carried forward are now £1,814,826 (2021: £2,297,179). The closing funds comprised of £38,920 relating to restricted funds (2021: £37,160), £863,812 relating to Designated funds (2021: £860,603) and £912,094 relating to unrestricted funds (2021: £1,399,416).

The annual budgets are normally based on the status quo. However, during the budget planning for 2022 it was known that the membership database required porting to an updated version of the Microsoft Dynamics platform. This was due to happen in 2022, but delays mean it will happen in 2023, although the considerable work undertaken during the year means 50% of the costs were paid during the year. In addition, the IRSE Indian Section organised a 3-day seminar on behalf of the 2021/22 President, although a local Covid-19 outbreak delayed it until after the end of his term of office. To assist in planning, £10,000 was loaned to the organisers, with a written agreement for its return after the event. The agreement also set out how any surplus would be divided between the IRSE and the IRSE Indian Section. By the end of the year final accounts for the event remained unavailable although there were indications there would be a small loss after the return of the loan. However, given the delays, the decision has been made to assume this loan should be written off and it appears in the accounts in this way. If money is eventually received, it will be included in the 2023 accounts.

During 2022 4 people left the Institution's employment and 5 joined. At year's end 13 people were employed. Of the 5 starting, one returned to their previous employer. Four are part-time employees, one is full time.

As in previous years, the accounts of each of the individual funds of the Institution, which are listed below, have been prepared and approved by the trustees.

The Trustees' Report and Accounts set out in the following pages include the following:

Unrestricted funds:

General

IRSE Main fund

Designated

Scholarship fund

General development fund

International conferences fund

Unrealised investments revaluation reserves.

Fisher / Hewlett fund

Future Conventions fund

Textbook preparation fund

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

FINANCIAL REVIEW - continued

Restricted funds:

Robert Dell bequest

Thorrowgood Scholarship bequest

INVESTMENTS

Investment policy and objectives

Under the Memorandum and Articles of Association the charity trustees have the power to invest the assets of the Institution in such a manner, as may from time to time be considered desirable. The trustees take advice from their investment managers, Rathbones. Dividends received are immediately reinvested.

KEY RISKS AND UNCERTAINTIES DISCLOSURE

A Risk Register is held by the Chief Executive and regularly reviewed by Management Committee. Significant risks for the long-term health of the Institution may be summarised as:

- Loss of membership and membership income;
- Loss of key staff including contractors; given the size of the organisation;
- Loss of support for the Licensing Scheme;
- Claims against the Licensing Scheme following an incident on a railway;
- Long-term loss of IT systems;
- Members' personal data loss;
- Financial failure of a major event.

PLANS FOR FUTURE PERIODS

The 2020 Convention to Toronto is now planned for 2024. Work is underway for ASPECT Conferences in Melbourne, Australia in 2023 and Yokohama in 2025. There are also plans for an Annual Dinner and Members' Lunch during 2023. A major update of the membership database will take place in 2023.

The review of the Institution's finances and the impact on subscriptions concluded that the necessary increase should be spread across 2022 and 2023. This will seek to remove the expectation that a surplus from IRSE Enterprises will support a shortfall in the charity's income each year.

PENSION LIABILITIES

The Institution's pension scheme is a defined contribution scheme through an external provider and there are no liabilities arising to the Institution.

RESERVES

The Institution has a Reserves Policy in accordance with the Charity Commission's requirements. This is reviewed annually by Council. The current values of the reserves are detailed in these accounts. The value of the Hewlett / Fisher fund has increased to reflect the income received from the fund's investments. The planned return to a modest surplus will help to replenish this, along with movements in the stock market.

Funds in Deficit and Going Concern

No funds are currently in deficit. There is no current reason to believe that the Institution is unable to continue as a going concern.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT
FOR THE YEAR ENDED 31 DECEMBER 2022

REFERENCE AND ADMINISTRATIVE DETAILS

Registered name of the Charity

The Institution of Railway Signal Engineers

Registered Company number

0125685 (England and Wales)

Registered Charity numbers

1046999

Principle address and registered office

1 Birdcage Walk
Westminster
London
SW1H 9JJ

Trustees and Directors

The Trustees and Directors who served during the year were:

P A Allan
I J Allison
F Al-Tahan
H S Bhatia
S W Boshier
I R Bridges (Co-opted 26 May 2022)
R E Burkhardt
R L Cooke
J Copperthwaite
B Godziejewski
R C Gould
P Gracey (Appointed 21 April 2022)
G Hartwell
Y Hirao
A Knight
G B S Lam
P H J McSharry
R Muttram
C R Page (Co-opted 26 May 2022)
J E Power
X Rao
C Roberts
A D Stringer
K Upton
D N Woodland (Co-opted 26 May 2022)

Resigned from the Board:

G E Clark (Resigned 21 April 2022)

Company Secretary

B Judd

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT
FOR THE YEAR ENDED 31 DECEMBER 2022

REFERENCE AND ADMINISTRATIVE DETAILS - continued

Chief Executive Officer

B Judd

Names and addresses of advisers:

Auditor

HPH Chartered Accountants
54 Bootham
York
YO30 7XZ

Bankers

National Westminster Bank Plc
Clapham Common Branch
145 Clapham High Street
London
SW4 7SZ

Solicitors

Tozers LLP
10 St. Pauls Road
Newton Abbot
Devon
TQ12 4PR

Investment managers

Rathbone Investment Management
8 Finsbury Circus
London
EC2M 7AZ

Key Management Personnel

B Judd – Chief Executive Officer
A Smith – Treasurer

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

STATEMENT OF TRUSTEES RESPONSIBILITIES

The trustees (who are also the Directors of The Institution of Railway Signal Engineers for the purposes of Company Law) are responsible for preparing the Report of the Trustees and the Financial Statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice), including Financial Reporting Standard 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland".

Company Law requires the trustees to prepare Financial Statements for each financial period which give a true and fair view of the state of affairs of the Charitable Company and of the incoming resources and application of resources, including the income and expenditure, of the Charitable Company for that period. In preparing those Financial Statements, the trustees are required to:

- select suitable accounting policies and then apply them consistently;
- observe the methods and principles in the Charity SORP;
- make judgements and estimates that are reasonable and prudent;
- prepare the Financial Statements on the going concern basis unless it is inappropriate to presume that the Charitable Company will continue in business.

The trustees are responsible for keeping proper accounting records which disclose with reasonable accuracy at any time the financial position of the Charitable Company and to enable them to ensure that the Financial Statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the Charitable Company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

In so far as the trustees are aware:

- there is no relevant audit information of which the Charitable Company's auditors are unaware; and
- the trustees have taken all steps that they ought to have taken to make themselves aware of any relevant audit information and to establish that the Auditors are aware of that information.

AUDITOR

The auditor, HPH is appointed under section 487(1) of the Companies Act 2006.

Approved by order of the board of trustees on 23 March 2023 and signed on its behalf by:

A Knight
President and Trustee

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

OPINION

We have audited the financial statements of The Institution of Railway Signal Engineers (the 'parent charitable company') and its subsidiaries (the 'group') for the year ended 31 December 2022, which comprise the Consolidated Statement of Financial Activities and Income and Expenditure Account, the Consolidated Balance Sheet, the Consolidated Cash Flow Statement and the related notes, including significant accounting policies. The financial reporting framework that has been applied in their preparation is applicable law and United Kingdom Accounting Standards, including Financial Reporting Standard 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' (United Kingdom Generally Accepted Accounting Practice).

In our opinion the financial statements:

- give a true and fair view of the state of the group's and the parent charitable company's affairs as at 31 December 2022 and of the group's incoming resources and application of resources 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.

BASIS OF OPINION

We conducted our audit in accordance with International Standards on Auditing (UK) (ISAs (UK)) and applicable law. Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report. We are independent of the group in accordance with the ethical requirements that are relevant to our audit of the financial statements in the United Kingdom, including the Financial Reporting Council's Ethical Standard, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

CONCLUSIONS RELATING TO GOING CONCERN

In auditing the financial statements, we have concluded that the trustees'/director's use of the going concern basis of accounting in the preparation of the financial statements is appropriate.

Based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the charitable company's ability to continue as a going concern for a period of at least twelve months from when the financial statements are authorised for issue.

Our responsibilities and the responsibilities of the directors with respect to going concern are described in the relevant sections of this report.

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

OTHER INFORMATION

The trustees/directors are responsible for the other information contained within the annual report. The other information comprises the information included in the Annual Report, other than the financial statements and our Auditor's report thereon. Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon.

Our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether this gives rise to a material misstatement in the financial statements themselves. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in this regard.

OPINION ON OTHER MATTERS PRESCRIBED BY THE COMPANIES ACT 2006

In our opinion, based on the work undertaken in the course of the audit:

- the information given in the Trustees' report, which includes the directors' report prepared for the purposes of company law, for the financial year for which the financial statements are prepared is consistent with the financial statements; and
- the directors' report included within the Trustees' report has been prepared in accordance with applicable legal requirements.

MATTERS ON WHICH WE ARE REQUIRED TO REPORT BY EXCEPTION

In the light of the knowledge and understanding of the charitable company and its environment obtained in the course of the audit, we have not identified material misstatements in the Trustees' report.

We have nothing to report in respect of the following matters in relation to which 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 directors' remuneration specified by law are not made; or
- we have not received all the information and explanations we require for our audit.

RESPONSIBILITIES OF DIRECTORS

As explained more fully in the Trustees' responsibilities statement on page 7, the trustees are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view, and for such internal control as the trustees determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the trustees are responsible for assessing the charitable company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the trustees either intend to liquidate the charitable company or to cease operations, or have no realistic alternative but to do so.

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE FINANCIAL STATEMENTS

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an Auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud. The extent to which our procedures are capable of detecting irregularities, including fraud is detailed below:

We obtained an understanding of the legal and regulatory frameworks within which the company operates, focusing on those laws and regulations that have a direct effect on the determination of material amounts and disclosures in the financial statements. The laws and regulations we considered in this context were the Companies Act 2006 together with the Charities SORP (FRS102) 2019. We assessed the required compliance with these laws and regulations as part of our audit procedures on the related financial statement items.

In addition, we considered provisions of other laws and regulations that do not have a direct effect on the financial statements but compliance with which might be fundamental to the charitable company's ability to operate or to avoid a material penalty. We also considered the opportunities and incentives that may exist within the charitable company for fraud. The laws and regulations we considered in this context for the UK operations were Employment legislation, Charity Commission regulations and General Data Protection Regulation (GDPR).

Auditing standards limit the required audit procedures to identify non-compliance with these laws and regulations to enquiry of the Trustees and other management and inspection of regulatory and legal correspondence, if any.

We identified the greatest risk of material impact on the financial statements from irregularities, including fraud, to be the override of controls by management and income recognition. Our audit procedures to respond to these risks included enquiries of management about their own identification and assessment of the risks of irregularities, sample testing on the posting of journals, detailed substantive testing on the completeness of income, reviewing regulatory correspondence and reading minutes of meetings of those charged with governance.

Owing to the inherent limitations of an audit, there is an unavoidable risk that we may not have detected some material misstatements in the financial statements, even though we have properly planned and performed our audit in accordance with auditing standards. We are not responsible for preventing non-compliance and cannot be expected to detect non-compliance with all laws and regulations.

These inherent limitations are particularly significant in the case of misstatement resulting from fraud as this may involve sophisticated schemes designed to avoid detection, including deliberate failure to record transactions, collusion or the provision of intentional misrepresentations.

A further description of our responsibilities for the audit of the financial statements is located on the Financial Reporting Council's website at: www.frc.org.uk/auditorsresponsibilities. This description forms part of our Auditor's report.

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

USE OF OUR REPORT

This report is made solely to the charitable company's members 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 the charitable company's members for our audit work, for this report, or for the opinions we have formed.

.....

Sarah Wearing (Senior Statutory Auditor)

For and on behalf of HPH, Statutory Auditor

54 Bootham
York
YO30 7XZ

23 March 2023

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**CONSOLIDATED STATEMENT OF FINANCIAL ACTIVITIES**
AND INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31 DECEMBER 2022

	Note	Unrestricted Funds £	Restricted Funds £	Total 2022 £	Total 2021 £
Income and endowments from:					
Charitable activities					
Donations and legacies	4	12,512	-	12,512	8,901
Other trading activities					
Non-ancillary trading income	5	517,598	-	517,598	346,358
Other activities	5	583,214	-	583,214	528,073
Investments					
Investment income	6	37,969	711	38,680	35,519
Total income		£ 1,151,293	£ 711	£ 1,152,004	£ 918,851
Expenditure on:					
Raising funds	7				
Other activities		7,599	-	7,599	6,070
Investment		8,844	-	8,844	9,208
Non-ancillary trading		541,863	-	541,863	403,600
		558,306	-	558,306	418,878
Charitable activities	7				
Awards		30,117	-	30,117	19,026
Promoting best practice		628,306	-	628,306	561,636
		658,423	-	658,423	580,662
Total expenditure		£ 1,216,729	£ -	£ 1,216,729	£ 999,540
Net (expenditure) / income before (loss) / gain on investments		(65,436)	711	(64,725)	(80,689)
Net (loss) / gain on investments	13	(418,677)	1,049	(417,628)	258,106
Net (expenditure) / income for the year		(484,113)	1,760	(482,353)	177,417
Reconciliation of funds:					
Total funds brought forward		2,260,019	37,160	2,297,179	2,119,762
Total funds carried forward		£ 1,775,906	£ 38,920	£ 1,814,826	£ 2,297,179

The notes on pages 15 to 26 form part of these financial statements.

Income and net movement in funds derive wholly from continuing operations.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**CONSOLIDATED BALANCE SHEET**
AS AT 31 DECEMBER 2022

Registration number: 0125685

	Note	Consolidated		Charity only	
		2022	2021	2022	2021
		£	£	£	£
Fixed assets:					
Tangible fixed assets	12	46,972	4,180	22,017	3,186
Investments	13	1,803,443	2,206,609	1,338,037	1,613,264
<i>Total fixed assets</i>		1,850,415	2,210,789	1,360,054	1,616,450
Current assets:					
Stocks	14	66,701	58,091	55,970	55,456
Debtors	15	190,770	165,442	249,267	295,779
Investments	16	211,198	211,177	211,198	211,177
Cash at bank and in hand	26	272,184	362,093	93,062	119,347
<i>Total current assets</i>		740,853	796,803	609,497	681,759
Liabilities:					
Creditors: amounts falling due within one year	17	500,686	463,923	286,795	274,140
<i>Net current assets</i>		240,167	332,880	322,702	407,619
<i>Total assets less current liabilities</i>		2,090,582	2,543,669	1,682,756	2,024,069
Creditors: amounts falling due after more than one year	18	275,756	246,490	-	-
Total net assets		£ 1,814,826	£ 2,297,179	£ 1,682,756	£ 2,024,069
The funds of the charity:	19				
Unrestricted funds	20	1,775,906	2,260,019	1,643,836	1,986,909
Restricted funds	21	38,920	37,160	38,920	37,160
Total charity funds		£ 1,814,826	£ 2,297,179	£ 1,682,756	£ 2,024,069

The financial statements were approved by the Board of Trustees on 23 March 2023 and were signed on its behalf

*Andy Knight*A Knight
President and Trustee*Steve Boshier*S W Boshier
Vice President and Trustee

The notes on pages 15 to 26 form part of these financial statements.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**CONSOLIDATED CASH FLOW STATEMENT**
FOR THE YEAR ENDED 31 DECEMBER 2022

	Note	2022	2021
		£	£
Net cash used in operating activities	25	(66,139)	(32,284)
Cash flow from investing activities:			
Purchase of tangible fixed assets		(47,988)	(2,220)
Purchase of fixed asset investments		(283,555)	(150,500)
Sale of fixed asset investments		269,093	273,112
Interest received		3,780	4,060
Dividends received		34,900	31,459
Net cash (used in) / provided by investing activities		(23,770)	155,911
Change in cash and cash equivalents in the year	27	(89,909)	123,627
Cash and cash equivalents at beginning of the year		362,093	238,466
Cash and cash equivalents at end of the year	26	£272,184	£362,093

The notes on pages 15 to 26 form part of these financial statements.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

NOTES TO THE FINANCIAL STATEMENTS **FOR THE YEAR ENDED 31 DECEMBER 2022**

1 ACCOUNTING POLICIES

Legal entity

The Institution of Railway Signal Engineers is regulated by the Charities Commission (1046999), limited by guarantee and is registered in England and Wales. The address of the registered office and principal place of business is 1 Birdcage Walk, Westminster, London, SW1H 9JJ.

In the event of the charity being wound up, the liability in respect of the guarantee is limited to £1 per member of the charity.

The charity constitutes a public benefit entity as defined by FRS 102.

Basis of preparation

The financial statements have been prepared in accordance with the relevant version of the 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), the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS102), the Charities Act 2011 and the Companies Act 2006.

The Institution of Railway Signal Engineers 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 note(s).

The consolidated accounts include the results of Institution of Railway Signal Engineers and IRSE Enterprises Limited, which are consolidated on a line by line basis. In accordance with section 408 of the Companies Act 2006, no separate Statement of Financial Activities (SOFA) or Cash Flow has been presented for the Charity alone.

Going concern

The Trustees/Directors have prepared financial projections, taking into consideration the current economic climate and its potential impact on the sources of income and planned expenditure. They have a reasonable expectation that adequate financial resources are available to enable the Charitable Company to continue in operational existence for the foreseeable future, and have adequate contingency plans in the event that income streams are reduced. Consequently the financial statements have been prepared on the basis that the Charitable Company is a going concern.

Income

All income is recognised in the Statement of Financial Activities once the charity has entitlement to the funds, it is probable that the income will be received and the amount can be measured reliably. Subscription income relating to future periods is deferred and recognised in the period to which it relates.

For donations to be recognised, if not received before the year end, the charity will have been notified of the amounts and settlement date in writing.

Fixed asset gifts in kind are recognised when receivable and are included at fair value. They are not deferred over the life of the asset.

Investment income is earned through holding assets for investment purposes such as shares and property. It includes dividends, interest and rent, included on a receivable basis.

Revenue in the trading subsidiary is recognised to the extent that it is probable that the economic benefits will flow to the company and the revenue can be reliably measured. Revenue is measured as the fair value of the consideration receivable, excluding discounts, rebates, value added tax and other sales taxes. The company has no long term contracts or on-going projects. Licences issued are for a 5-year period and so any such income relating to future periods is deferred and recognised in the period to which it relates.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**1 ACCOUNTING POLICIES (continued)****Expenditure and irrecoverable VAT**

Expenditure is accrued as soon as a liability is considered probable, discounted to present value for longer-term liabilities. Expenditure attributable to more than one cost category is apportioned to them on the basis of the estimated amount attributable to each activity in the year, either by reference to staff time or the use made of the underlying assets, as appropriate. Expenses are shown net of VAT with the irrecoverable element included within direct costs.

Raising funds includes all expenditure incurred by the charity to raise funds for its charitable purposes and includes costs of fundraising activities, events and non-charitable trading.

Governance costs represent those costs attributable to the management of the charity's assets, organisational administration and compliance with constitutional and statutory requirements.

Support costs are those costs that assist the work of the charity but do not directly represent charitable activities and include office costs and governance costs, including payroll costs. They are incurred directly in support of expenditure on the objectives of the charity. Where support costs cannot be directly attributed to particular headings they have been allocated to costs of raising funds and expenditure on charitable activities on a basis consistent with use of the resources.

Tangible fixed assets

Tangible fixed assets are included in the financial statements at their historical cost. Depreciation is calculated to write off the cost of fixed assets over their expected useful lives on a straight line basis. The rates used are as follows:

Fixtures and fittings	20% per annum straight line
IT and software	33% per annum straight line

Stocks

Stocks are stated at the lower of cost and net realisable value, after making due allowance for obsolete and slow moving stock.

Fund accounting

General funds - These are funds which can be used in accordance with the charity's charitable objectives at the discretion of the board.

Designated funds - these comprise unrestricted funds that have been set aside by the trustees for particular purposes. The aim and use of each designated fund is set out in the notes to the financial statements.

Restricted funds - These are subject to specific restrictive conditions imposed by the donors of funds received for specific purposes and projects.

Financial instruments

The charity only has financial assets and financial liabilities of a kind that qualify as basic financial instruments. Basic financial instruments are initially recognised at transaction value and subsequently measured at their settlement value with the exception of bank loans which are subsequently measured at amortised cost using the effective interest method.

Cash at bank and in hand

Cash at bank and cash in hand includes cash and any short term deposit accounts with a maturity of three months or less from the date of opening.

Other financial assets

Other financial assets are initially measured at fair value, which is normally the transaction price. Such assets are subsequently carried at fair value and the changes in fair value are recognised in the Statement of Financial Activities, except investments that are not publicly traded and whose fair values cannot be measured reliably are measured at cost less impairment.

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.

Investments

The investment portfolios have been valued at market value at 31 December 2022. The Statement of Financial Activities includes the net gains and losses on investments arising on revaluation at the year end and on disposals throughout the year. Realised gains and losses on sales of investments are calculated as the difference between the sale proceeds and opening market value. Unrealised gains and losses represent the movement between market values.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**1 ACCOUNTING POLICIES (continued)****Other financial instruments**

All other financial instruments are initially recognised at fair value, which is normally the transaction price. Other financial instruments are subsequently measured at fair value with any changes in the fair value recorded in the Statement of Financial Activities.

Creditors and provisions

Creditors and provisions are recognised where the charity 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.

Operating leases

Rentals payable under operating leases are charged in the Statement of Financial Activities on a straight line basis over the lease term.

Foreign currencies

Assets and liabilities in foreign currencies are translated into sterling at the rates of exchange ruling at the balance sheet date. Transactions in foreign currencies are translated into sterling at the rate of exchange ruling at the date of transaction. Exchange differences are taken into account in arriving at the operating result.

Pension costs and other post-retirement benefits

The charitable company operates a defined contribution pension scheme. Contributions payable to the charitable company's pension scheme are charged to the Statement of Financial Activities in the period to which they relate.

Significant judgements and estimates

In the application of the group's accounting policies, the directors are required to make judgements, estimates and assumptions in areas where this information is not readily available from other sources. In particular the directors use judgment in assessing the carrying amount of assets and liabilities. The estimates and assumptions are based on the historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised where the revision affects only that period, or in the period of the revision and future periods where the revision affects both current and future periods.

Investments

Investments are included on the Balance Sheet and are stated at market value as at the balance sheet date. Gains and losses on disposal and revaluations of investments are charged or credited to the Statement of Financial Activities.

2 TAXATION

As a registered charity, The Institute of Railway Signal Engineers is exempt from the tax on income falling within sections 466 to 493 of the Corporation Tax Act 2010 to the extent that this is applied to its charitable objects. No tax charges have arisen in the Company.

3 OPERATING SURPLUS

The surplus for the year is stated after charging:

	2022	2021
	£	£
Depreciation	5,196	17,598
Auditor's remuneration	6,160	6,000

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****4 CHARITABLE ACTIVITIES - DONATIONS AND LEGACIES**

	2022	2021
	£	£
Donations	<u>£ 12,512</u>	<u>£ 8,901</u>

All donations related to unrestricted funds.

5 OTHER TRADING ACTIVITIES

	2022	2021
	£	£
Other activities		
Subscriptions	495,058	451,423
Professional reviews	6,870	7,710
Advertising	3,900	13,513
Booklets & textbooks	22,030	8,943
IRSE ties, cufflinks and badges	-	64
Examination fees and materials	53,205	44,920
Proceeds from members' lunch	2,151	1,500
	<u>583,214</u>	<u>528,073</u>

All other activities relate to unrestricted funds.

Trading income

IRSE Enterprises Limited	<u>517,598</u>	<u>346,358</u>
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6 INVESTMENT INCOME

	2022	2021
	£	£
Equities & Government stocks	27,747	24,193
Interest receivable	3,167	4,053
IRSE Enterprises Limited	7,766	7,273
	<u>£ 38,680</u>	<u>£ 35,519</u>

£764 of investment income relates to restricted funds (2021: £736).

7 ANALYSIS OF EXPENDITURE

	Staff costs	Other	Depreciation	2022	2021
	£	£	£	£	£
Raising funds					
Other activities	2,285	5,297	17	7,599	6,070
Investment	-	8,844	-	8,844	9,208
Non-ancillary trading	184,191	354,152	3,520	541,863	403,600
Total raising funds	<u>186,476</u>	<u>368,293</u>	<u>3,537</u>	<u>558,306</u>	<u>418,878</u>
Charitable activities					
Awards	9,141	20,909	67	30,117	19,026
Promoting best practice	217,109	409,605	1,592	628,306	561,636
Total charitable activities	<u>226,250</u>	<u>430,514</u>	<u>1,659</u>	<u>658,423</u>	<u>580,662</u>
Total Expenditure	<u>£ 412,726</u>	<u>£ 798,807</u>	<u>£ 5,196</u>	<u>£ 1,216,729</u>	<u>£ 999,540</u>

All raising funds expenditure relates to unrestricted funds.

£nil of charitable activities expenditure relates to restricted funds (2021: £300).

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**8 GOVERNANCE COSTS**

	2022	2021
	£	£
Auditors' remuneration	£ 6,160	£ 6,000

All governance costs relate to unrestricted expenditure.

9 AUDITOR'S REMUNERATION

Amounts payable to the auditor for statutory audit services of the group are £6,000 (2021 - £6,000) and of the charity are £4,000 (2021 - £4,000).

10 TRUSTEE REMUNERATION AND BENEFITS

Travel and training expenses totalling £12,541 were reimbursed to three Trustees during the year. In 2021 no Trustees' expenses were reimbursed during the year.

11 STAFF COSTS

	2022	2021
	£	£
Wages and salaries	357,175	344,664
Social security costs	29,774	32,727
Defined contribution pension costs	25,777	24,747
	<u>£ 412,726</u>	<u>£ 402,138</u>

The average number of employees during the year was as follows:

	2022	2021
Administration	<u>12</u>	<u>12</u>

There are no employees who received total employee benefits (excluding employer pension costs) of more than £60,000 (2021 - None).

The key management personnel of the charitable company, comprise the Trustees, Chief Executive Officer and Treasurer (2021 - Trustees, Chief Executive Officer, Treasurer and HR Advisor) as disclosed on page 6. The total amount of employee benefits (including employer pension contributions) received by key management personnel for their services to the charitable company was nil (2021: nil). The total amount paid to the key management personnel in respect of their services totalled £55,789 (2021: £86,952).

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**12 TANGIBLE FIXED ASSETS - GROUP****Fixtures and
fittings
£**

Cost:	
At 1 January 2022	330,900
Additions	47,988
At 31 December 2022	<u>378,888</u>
Depreciation:	
At 1 January 2022	326,720
Charge for the year	5,196
At 31 December 2022	<u>331,916</u>
Net book values:	
31 December 2022	<u>£ 46,972</u>
31 December 2021	<u>£ 4,180</u>

All of the tangible fixed assets relate to unrestricted funds.

TANGIBLE FIXED ASSETS - CHARITY**Fixtures and
fittings
£**

Cost:	
At 1 January 2022	300,935
Additions	20,507
At 31 December 2022	<u>321,442</u>
Depreciation:	
At 1 January 2022	297,749
Charge for the year	1,676
At 31 December 2022	<u>299,425</u>
Net book values:	
31 December 2022	<u>£ 22,017</u>
31 December 2021	<u>£ 3,186</u>

All of the tangible fixed assets relate to unrestricted funds.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****13 FIXED ASSET INVESTMENTS - GROUP**

	Equities £	Government securities £	Total £
Market value			
At 1 January 2022	2,000,965	205,644	2,206,609
Additions	201,291	82,264	283,555
Disposals	(182,978)	(86,115)	(269,093)
Revaluation	(360,573)	(57,055)	(417,628)
At 31 December 2022	<u>£ 1,658,705</u>	<u>£ 144,738</u>	<u>£ 1,803,443</u>

£37,648 of investments relates to restricted funds (2021: £36,599).

£1,049 of gains on investments relates to restricted funds (2021: £933).

FIXED ASSET INVESTMENTS - CHARITY

	Subsidiary company £	Equities £	Government securities £	Total £
Market value				
At 1 January 2022	4,415	1,452,351	156,498	1,613,264
Additions	-	144,938	65,113	210,051
Disposals	-	(137,473)	(54,716)	(192,189)
Revaluation	-	(239,249)	(53,840)	(293,089)
At 31 December 2022	<u>£ 4,415</u>	<u>£ 1,220,567</u>	<u>£ 113,055</u>	<u>£ 1,338,037</u>

£37,648 of investments relates to restricted funds (2021: £36,599).

£1,049 of gains on investments relates to restricted funds (2021: £933).

The charitable company's investments at the balance sheet date in the share capital of companies include the following:

IRSE Enterprises Limited

Registered office: 4th Floor, 1 Birdcage Walk, Westminster, London, SW1H 9JJ

Nature of business: Administration & finance support for parent

	%
Class of share:	holding
Ordinary	100

	2022 £	2021 £
Aggregate capital and reserves	136,803	277,523
(Loss) / profit for the year	<u>(140,720)</u>	<u>35,847</u>

No donation (2021: £nil) was made from the company to the charity in the year due to the fact that the company did not make a taxable profit.

14 STOCKS - GROUP

	2022 £	2021 £
Stocks	<u>£ 66,701</u>	<u>£ 58,091</u>

STOCKS - CHARITY

	2022 £	2021 £
Stocks	<u>£ 55,970</u>	<u>£ 55,456</u>

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****15 DEBTORS**

	Consolidated		Charity	
	2022	2021	2022	2021
	£	£	£	£
Trade debtors	77,076	67,078	-	-
Other debtors	3,435	4,964	3,333	4,964
Prepayments and accrued income	15,900	16,529	-	-
VAT	94,359	76,871	81,213	63,292
Amounts owed by group undertakings	-	-	164,721	227,523
	<u>£ 190,770</u>	<u>£ 165,442</u>	<u>£ 249,267</u>	<u>£ 295,779</u>

All debtors relate to unrestricted funds.

16 CURRENT ASSET INVESTMENTS - GROUP

	2022	2021
	£	£
National Savings	<u>£ 211,198</u>	<u>£ 211,177</u>

All debtors relate to unrestricted funds.

17 CREDITORS: amounts falling due within one year

	Consolidated		Charity	
	2022	2021	2022	2021
	£	£	£	£
Trade creditors	39,925	53,457	28,901	45,749
Accruals	26,697	21,547	22,429	17,008
Deferred income	427,036	382,197	230,178	206,682
Other creditors	7,028	6,722	5,287	4,701
	<u>£ 500,686</u>	<u>£ 463,923</u>	<u>£ 286,795</u>	<u>£ 274,140</u>

All creditors relate to unrestricted funds.

18 CREDITORS: amounts falling due after more than one year - GROUP

	2022	2021
	£	£
Other creditors	<u>£ 275,756</u>	<u>£ 246,490</u>

Representing the proportion of licence fees received in advance, which will be credited to income after more than one year.

19 ANALYSIS OF NET ASSETS BETWEEN FUNDS

	Tangible fixed assets	Investments	Net current (liabilities)/ assets	Long term liabilities	Total 2022
	£	£	£	£	£
Unrestricted funds	22,018	1,295,974	321,429	-	1,639,421
Restricted funds	-	37,648	1,272	-	38,920
Total Charity Funds	<u>22,018</u>	<u>1,333,622</u>	<u>322,701</u>	<u>-</u>	<u>1,678,341</u>
IRSE Enterprises Limited	24,954	469,821	(82,534)	(275,756)	136,485
Total for the group	<u>£ 46,972</u>	<u>£ 1,803,443</u>	<u>£ 240,167</u>	<u>£ (275,756)</u>	<u>£ 1,814,826</u>

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****19 ANALYSIS OF NET ASSETS BETWEEN FUNDS - continued***2021 comparatives*

	Tangible fixed assets	Investments	Net current (liabilities)/ assets	Long term liabilities	Total 2021
	£	£	£	£	£
Unrestricted funds	3,187	1,572,250	407,059	-	1,982,496
Restricted funds	-	36,599	561	-	37,160
Total Charity Funds	3,187	1,608,849	407,620	-	2,019,656
IRSE Enterprises Limited	993	597,760	(74,740)	(246,490)	277,523
Total for the group	£ 4,180	£ 2,206,609	£ 332,880	£ (246,490)	£ 2,297,179

20 UNRESTRICTED FUNDS

	Balance at 01/01/2022	Income	Expenditure	Losses on investments	Transfers	Balance at 31/12/2022
	£	£	£	£	£	£
Designated funds						
Scholarship	78,315	3	-	-	-	78,318
Alan Fisher memorial /						-
Frank Hewlett Bequest	430,288	3,206	-	-	-	433,494
General Development	307,000	-	-	-	-	307,000
Future ASPECT Conference	10,000	-	-	-	-	10,000
International conventions	27,500	-	-	-	-	27,500
Textbook Preparation	7,500	-	-	-	-	7,500
	860,603	3,209	-	-	-	863,812
Unrestricted funds						
General Fund	1,109,800	622,720	(674,866)	(294,138)	-	763,516
Charity	1,970,403	625,929	(674,866)	(294,138)	-	1,627,328
Non charitable trading funds	289,616	525,364	(541,863)	(124,539)	-	148,578
Total for the group	£ 2,260,019	£ 1,151,293	£ (1,216,729)	£ (418,677)	£ -	£ 1,775,906
<i>2021 comparatives</i>	Balance at 01/01/2021	Income	Expenditure	Gains on investments	Transfers	Balance at 31/12/2021
	£	£	£	£	£	£
Designated funds						
Scholarship	78,068	247	-	-	-	78,315
Alan Fisher memorial /						
Frank Hewlett Bequest	425,321	4,967	-	-	-	430,288
General Development	307,000	-	-	-	-	307,000
Future ASPECT Conference	10,000	-	-	-	-	10,000
International conventions	27,500	-	-	-	-	27,500
Textbook Preparation	7,500	-	-	-	-	7,500
	855,389	5,214	-	-	-	860,603
Unrestricted funds						
General Fund	974,813	559,270	(595,640)	171,357	-	1,109,800
Charity	1,830,202	564,484	(595,640)	171,357	-	1,970,403
Non charitable trading funds	253,769	353,631	(403,600)	85,816	-	289,616
Total for the group	£ 2,083,971	£ 918,115	£ (999,240)	£ 257,173	£ -	£ 2,260,019

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

NOTES TO THE FINANCIAL STATEMENTS **FOR THE YEAR ENDED 31 DECEMBER 2022**

21 RESTRICTED FUNDS	Balance at 01/01/2022	Income	Expenditure	Gains on investments	Balance at 31/12/2022
	£	£	£	£	£
Restricted funds					
Dell Bequest	24,064	547	-	808	25,419
Thorrowgood Bequest	13,096	164	-	241	13,501
	<u>£ 37,160</u>	<u>£ 711</u>	<u>£ -</u>	<u>£ 1,049</u>	<u>£ 38,920</u>
 <i>2021 comparatives</i>					
	Balance at 01/01/2021	Income	Expenditure	Gains on investments	Balance at 31/12/2021
	£	£	£	£	£
Restricted funds					
Dell Bequest	23,127	519	(300)	718	24,064
Thorrowgood Bequest	12,664	217	-	215	13,096
	<u>£ 35,791</u>	<u>£ 736</u>	<u>£ (300)</u>	<u>£ 933</u>	<u>£ 37,160</u>

Dell Bequest

The Dell Award is made annually under a bequest of the late Robert Dell OBE (Past President). It is awarded to a member of the Institution employed by London Underground Ltd (or its successor bodies) for achievement of a high standard in the science and application of railway signalling. The award consists of a plaque with a uniquely designed shield, engraved with the recipient's name together with a cheque.

Thorrowgood Bequest

The Thorrowgood Scholarship is awarded annually if a candidate has excelled in the IRSE's Professional Examination. The award, which is presented at the Institution's AGM in the April following the examination, comprises the Thorrowgood Scholarship Medallion and a cheque.

22 OPERATING LEASE COMMITMENTS

As at 31 December 2022 the charitable company had future minimum lease payments under non-cancellable operating leases as follows:

	2022	2021
	£	£
Within one year	10,291	10,291
Between one and five years	20,582	30,873
	<u>£ 30,873</u>	<u>£ 41,164</u>

23 RELATED PARTIES

Other than those detailed in notes 10 and 11, there were no other related parties in the year.

24 ULTIMATE CONTROLLING PARTY

There is no ultimate controlling party. The charity is managed by its board of trustees. The liability of each of the charity's trustees is limited to £1.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022

25 RECONCILIATION OF NET (EXPENDITURE) / INCOME TO NET CASH FLOW FROM OPERATING ACTIVITIES	2022	2021	
	£	£	
Net (expenditure) / income for the reporting period	(482,353)	177,417	
Depreciation of tangible Fixed Assets	5,196	17,598	
Losses / (gains) on Investments	417,628	(273,377)	
Interest received	(3,780)	(4,060)	
Dividends received	(34,900)	(31,459)	
Increase in Stocks	(8,610)	(9,229)	
(Decrease) / increase in Debtors	(25,328)	42,088	
Increase in Current Asset Investments	(21)	(1,509)	
Increase in Creditors	66,029	50,247	
Net cash used in operating activities	£ (66,139)	£ (32,284)	
26 ANALYSIS OF CASH AND CASH EQUIVALENTS - GROUP	2022	2021	
	£	£	
Cash at bank and in hand	272,184	362,093	
Total cash and cash equivalents	£ 272,184	£ 362,093	
ANALYSIS OF CASH AND CASH EQUIVALENTS - CHARITY	2022	2021	
	£	£	
Cash at bank and in hand	93,062	119,347	
Total cash and cash equivalents	£ 93,062	£ 119,347	
27 ANALYSIS OF CHANGES IN NET DEBT			
	At		At
	01/01/2022	Cash-flows	31/12/2022
	£	£	£
Cash	362,093	(89,909)	272,184
		(89,909)	
	362,093	(89,909)	272,184

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**28 COMPARATIVE CONSOLIDATED STATEMENT OF FINANCIAL ACTIVITIES AND INCOME AND EXPENDITURE ACCOUNT**

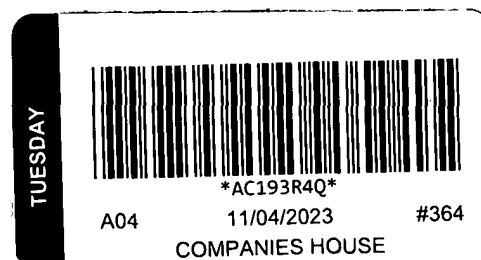
	Unrestricted Funds 2021 £	Restricted Funds 2021 £	Total 2021 £
Income and endowments from:			
Charitable activities			
Donations and legacies	8,901	-	8,901
Other trading activities			
Non-ancillary trading income	346,358	-	346,358
Other activities	528,073	-	528,073
Investments			
Investment income	34,783	736	35,519
Total income	<u>£ 918,115</u>	<u>£ 736</u>	<u>£ 918,851</u>
Expenditure on:			
Raising funds			
Other activities	6,070	-	6,070
Investment	9,208	-	9,208
Non-ancillary trading	403,600	-	403,600
	<u>418,878</u>	<u>-</u>	<u>418,878</u>
Charitable activities			
Awards	18,726	300	19,026
Promoting best practice	561,636	-	561,636
	<u>580,362</u>	<u>300</u>	<u>580,662</u>
Total expenditure	<u>£ 999,240</u>	<u>£ 300</u>	<u>£ 999,540</u>
Net (expenditure) / income before gain on investments	(81,125)	436	(80,689)
Net gain on investments	257,173	933	258,106
Net income / (expenditure) for the year	<u>176,048</u>	<u>1,369</u>	<u>177,417</u>
Reconciliation of funds:			
Total funds brought forward	2,083,971	35,791	2,119,762
Total funds carried forward	<u>£ 2,260,019</u>	<u>£ 37,160</u>	<u>£ 2,297,179</u>

This is the comparative statement of financial activities, please refer to page 12 for the current year statement.

Registration number: 0125685

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS
(Charity number: 1046999)

ANNUAL REPORT AND FINANCIAL STATEMENTS
for the year ended
31 December 2022



HPH
Chartered Accountants
54 Bootham
York
YO30 7XZ

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

The trustees, who are also directors of the charity for the purposes of the Companies Act 2006, present their report with the financial statements of the charity for the year ended 31 December 2022.

The Charity is a Public Benefit Entity.

The Financial Statements comply 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 Financial Statements in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2019).

STRUCTURE, GOVERNANCE AND MANAGEMENT

The Institution is a Company Limited by Guarantee and governed by its Memorandum and Articles of Association, last amended on 22nd April 2021. Trustees are members of the Institution and elected by the membership following their proposal by members or the governing Council of the Institution.

The Institution is managed by its Council, which is headed by the President, assisted by the Senior and Junior Vice Presidents. Its other members are other suitably elected and co-opted individuals drawn from the various grades of membership. The Council constitutes committees to assist in the operation of the Institution as it sees fit. Currently, for the general management of the Institution there is a Management Committee, consisting of the President, Vice Presidents, one or more past Presidents, a number of ordinary members of Council, along with the Chief Executive and Treasurer, and Finance Committee, consisting of the President and Vice Presidents, the previous President, the Chief Executive and Treasurer and one ordinary member of Council.

There is no formal training of trustees, but they are periodically provided with the current version of the Charity Commission document 'Charities and Investment Matters: A Guide for Trustees'. Formally, all decisions related to the operation of the Institution are made by the Council. Often, these decisions are based on recommendations from subsidiary committees, particularly Finance and Management. Staff involvement is only related to low-value day to day purchases for the efficient operation of the Institution.

Staff salaries are agreed by Finance Committee on the recommendation of the Chief Executive. A small number of the senior management are contracted to the Institution. Their remuneration is likewise agreed by Finance Committee on the Chief Executive's recommendation, with the exception of the Chief Executive, where the remuneration is at the discretion of the trustees on Finance Committee. The benchmark taken for proposals is generally based on the ruling CPI as published by the Government in October.

The Institution's operating subsidiary is IRSE Enterprises. Its managing board has the Treasurer, President, Vice Presidents, immediate past President, and a Council representative as directors.

OBJECTIVES AND ACTIVITIES

Public Benefit

The Institution's objects and principal activities continue to be the advancement of the science and practice of signalling and railway telecommunications for the public benefit by the promotion of research, the collection and publication of educational material and the holding of conferences, seminars and meetings, the maintenance of high standards of practice and professional care amongst those working within the industry and the promotion of improved safety standards for the protection of the general public. The trustees have complied with the duty in section 17 of the Charities Act 2011 to have due regard to public benefit guidance published by the Charity Commission.

Custodian Trustee Disclosures

No assets were held by any trustee or by the Institution on behalf of any other charity.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

OBJECTIVES AND ACTIVITIES - continued

Regular Activities

The Institution's main fund raises money by way of subscriptions, joining fees and donations. The Institution issues a magazine to its members 11 times a year, containing papers, articles and other information pursuant to the Institution's objects. It also sells technical papers and books it publishes itself or buys for re-sale.

The Institution usually organises a number of technical meetings, conferences, seminars and dinners, for some of which it makes a charge. These provide a forum for discussion and the transfer of knowledge. Following the COVID-19 pandemic experience, most were filmed and made available at the time and subsequently through an on-line video link. Some meetings were also available to attend live, but attendance figures have been very low. In addition, the Annual Dinner returned in April and a Convention was held in Glasgow during September.

The Licensing scheme, run through the subsidiary IRSE Enterprises, provides accreditation to individuals and organisations within the industry after having complied with certain laid-down standards. Fees are charged for these activities. Licences issued are for a 5-year period so one-fifth of the income is credited each year to the Income and Expenditure account, the balance being carried forward as a liability in the Balance Sheet.

Whilst no formal criteria are applied to measure the success or otherwise of all charged events, there is an expectation they will, at least, break even, whilst for free events a visibly full venue or significant on-line viewing is considered a success. It is noted on-line attendance has exceeded expectation and engaged a wider geographical spread, assisting in promoting the charitable objects. Consideration is being given to normally have the free events on-line only. In the case of the Institution's exam, the criterion is a suitably high pass-rate.

The Institution is a fully nominated Body of the Engineering Council licensed to register Chartered Engineers, Incorporated Engineers and Engineering Technicians.

GRANT-MAKING

Bursaries are allocated based on an application form and interview by senior Institution members. In 2022 9 were given linked to the Glasgow Convention. Prizes are based on documented criteria, some depending on suitable success in the Institution's exam.

VOLUNTEERS

Volunteers provide considerable assistance in the operation of the Institution, both in its local sections and technical societies, where the objects mirror those of the Institution itself, and centrally, to provide a source of expert input and background assistance. This applies, particularly, in the operation of the Institution's professional exam and the production of the Institution's magazine, IRSE News.

SOCIAL INVESTMENT

No financial social investment is undertaken, but the high-level objective regarding the maintenance of high standards and the promotion of safety standards is directed towards the protection of the general public whilst on or near railways.

FUNDRAISING

No fundraising activities are undertaken by the Institution.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

ACHIEVEMENTS AND PERFORMANCE

With the reduction in Covid-19 infections and relaxation of restrictions, most of the normal calendar events returned in 2022. This, and pre-planned above inflation increases in subscription rates, would appear to have started to have the desired effect of returning the IRSE to operating breakeven. The IRSE Exam will continue on-line. After issues in 2021, the multiple-choice Module A was held twice in 2022. The success means this will be repeated in 2023. The planned programme of lectures (provided through on-line platforms) was supplemented by the Annual Dinner, a Convention, a seminar in Toronto and a Technical Visit to Ireland.

Beyond the events discussed above, there are no specific fundraising activities. No expenditure has been incurred to raise that income, beyond that involved in the organisation of the events themselves.

FINANCIAL REVIEW

The results of the Institution are set out in the Consolidated Statement of Financial Activities and Income and Expenditure Account which may be found on page 12.

The net deficit of the group for the year before fair value adjustments to the carrying value of investments was £64,725 (2021: £80,689) and total funds carried forward are now £1,814,826 (2021: £2,297,179). The closing funds comprised of £38,920 relating to restricted funds (2021: £37,160), £863,812 relating to Designated funds (2021: £860,603) and £912,094 relating to unrestricted funds (2021: £1,399,416).

The annual budgets are normally based on the status quo. However, during the budget planning for 2022 it was known that the membership database required porting to an updated version of the Microsoft Dynamics platform. This was due to happen in 2022, but delays mean it will happen in 2023, although the considerable work undertaken during the year means 50% of the costs were paid during the year. In addition, the IRSE Indian Section organised a 3-day seminar on behalf of the 2021/22 President, although a local Covid-19 outbreak delayed it until after the end of his term of office. To assist in planning, £10,000 was loaned to the organisers, with a written agreement for its return after the event. The agreement also set out how any surplus would be divided between the IRSE and the IRSE Indian Section. By the end of the year final accounts for the event remained unavailable although there were indications there would be a small loss after the return of the loan. However, given the delays, the decision has been made to assume this loan should be written off and it appears in the accounts in this way. If money is eventually received, it will be included in the 2023 accounts.

During 2022 4 people left the Institution's employment and 5 joined. At year's end 13 people were employed. Of the 5 starting, one returned to their previous employer. Four are part-time employees, one is full time.

As in previous years, the accounts of each of the individual funds of the Institution, which are listed below, have been prepared and approved by the trustees.

The Trustees' Report and Accounts set out in the following pages include the following:

Unrestricted funds:

General

IRSE Main fund

Designated

Scholarship fund

General development fund

International conferences fund

Unrealised investments revaluation reserves.

Fisher / Hewlett fund

Future Conventions fund

Textbook preparation fund

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

FINANCIAL REVIEW - continued

Restricted funds:

Robert Dell bequest

Thorrowgood Scholarship bequest

INVESTMENTS

Investment policy and objectives

Under the Memorandum and Articles of Association the charity trustees have the power to invest the assets of the Institution in such a manner, as may from time to time be considered desirable. The trustees take advice from their investment managers, Rathbones. Dividends received are immediately reinvested.

KEY RISKS AND UNCERTAINTIES DISCLOSURE

A Risk Register is held by the Chief Executive and regularly reviewed by Management Committee. Significant risks for the long-term health of the Institution may be summarised as:

- Loss of membership and membership income;
- Loss of key staff including contractors; given the size of the organisation;
- Loss of support for the Licensing Scheme;
- Claims against the Licensing Scheme following an incident on a railway;
- Long-term loss of IT systems;
- Members' personal data loss;
- Financial failure of a major event.

PLANS FOR FUTURE PERIODS

The 2020 Convention to Toronto is now planned for 2024. Work is underway for ASPECT Conferences in Melbourne, Australia in 2023 and Yokohama in 2025. There are also plans for an Annual Dinner and Members' Lunch during 2023. A major update of the membership database will take place in 2023.

The review of the Institution's finances and the impact on subscriptions concluded that the necessary increase should be spread across 2022 and 2023. This will seek to remove the expectation that a surplus from IRSE Enterprises will support a shortfall in the charity's income each year.

PENSION LIABILITIES

The Institution's pension scheme is a defined contribution scheme through an external provider and there are no liabilities arising to the Institution.

RESERVES

The Institution has a Reserves Policy in accordance with the Charity Commission's requirements. This is reviewed annually by Council. The current values of the reserves are detailed in these accounts. The value of the Hewlett / Fisher fund has increased to reflect the income received from the fund's investments. The planned return to a modest surplus will help to replenish this, along with movements in the stock market.

Funds in Deficit and Going Concern

No funds are currently in deficit. There is no current reason to believe that the Institution is unable to continue as a going concern.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT
FOR THE YEAR ENDED 31 DECEMBER 2022

REFERENCE AND ADMINISTRATIVE DETAILS

Registered name of the Charity

The Institution of Railway Signal Engineers

Registered Company number

0125685 (England and Wales)

Registered Charity numbers

1046999

Principle address and registered office

1 Birdcage Walk
Westminster
London
SW1H 9JJ

Trustees and Directors

The Trustees and Directors who served during the year were:

P A Allan
I J Allison
F Al-Tahan
H S Bhatia
S W Boshier
I R Bridges (Co-opted 26 May 2022)
R E Burkhardt
R L Cooke
J Copperthwaite
B Godziejewski
R C Gould
P Gracey (Appointed 21 April 2022)
G Hartwell
Y Hirao
A Knight
G B S Lam
P H J McSharry
R Muttram
C R Page (Co-opted 26 May 2022)
J E Power
X Rao
C Roberts
A D Stringer
K Upton
D N Woodland (Co-opted 26 May 2022)

Resigned from the Board:

G E Clark (Resigned 21 April 2022)

Company Secretary

B Judd

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT
FOR THE YEAR ENDED 31 DECEMBER 2022

REFERENCE AND ADMINISTRATIVE DETAILS - continued

Chief Executive Officer

B Judd

Names and addresses of advisers:

Auditor

HPH Chartered Accountants
54 Bootham
York
YO30 7XZ

Bankers

National Westminster Bank Plc
Clapham Common Branch
145 Clapham High Street
London
SW4 7SZ

Solicitors

Tozers LLP
10 St. Pauls Road
Newton Abbot
Devon
TQ12 4PR

Investment managers

Rathbone Investment Management
8 Finsbury Circus
London
EC2M 7AZ

Key Management Personnel

B Judd – Chief Executive Officer
A Smith – Treasurer

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

TRUSTEES' ANNUAL REPORT **FOR THE YEAR ENDED 31 DECEMBER 2022**

STATEMENT OF TRUSTEES RESPONSIBILITIES

The trustees (who are also the Directors of The Institution of Railway Signal Engineers for the purposes of Company Law) are responsible for preparing the Report of the Trustees and the Financial Statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice), including Financial Reporting Standard 102 "The Financial Reporting Standard applicable in the UK and Republic of Ireland".

Company Law requires the trustees to prepare Financial Statements for each financial period which give a true and fair view of the state of affairs of the Charitable Company and of the incoming resources and application of resources, including the income and expenditure, of the Charitable Company for that period. In preparing those Financial Statements, the trustees are required to:

- select suitable accounting policies and then apply them consistently;
- observe the methods and principles in the Charity SORP;
- make judgements and estimates that are reasonable and prudent;
- prepare the Financial Statements on the going concern basis unless it is inappropriate to presume that the Charitable Company will continue in business.

The trustees are responsible for keeping proper accounting records which disclose with reasonable accuracy at any time the financial position of the Charitable Company and to enable them to ensure that the Financial Statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the Charitable Company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

In so far as the trustees are aware:

- there is no relevant audit information of which the Charitable Company's auditors are unaware; and
- the trustees have taken all steps that they ought to have taken to make themselves aware of any relevant audit information and to establish that the Auditors are aware of that information.

AUDITOR

The auditor, HPH is appointed under section 487(1) of the Companies Act 2006.

Approved by order of the board of trustees on 23 March 2023 and signed on its behalf by:

A Knight
President and Trustee

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

OPINION

We have audited the financial statements of The Institution of Railway Signal Engineers (the 'parent charitable company') and its subsidiaries (the 'group') for the year ended 31 December 2022, which comprise the Consolidated Statement of Financial Activities and Income and Expenditure Account, the Consolidated Balance Sheet, the Consolidated Cash Flow Statement and the related notes, including significant accounting policies. The financial reporting framework that has been applied in their preparation is applicable law and United Kingdom Accounting Standards, including Financial Reporting Standard 102 'The Financial Reporting Standard applicable in the UK and Republic of Ireland' (United Kingdom Generally Accepted Accounting Practice).

In our opinion the financial statements:

- give a true and fair view of the state of the group's and the parent charitable company's affairs as at 31 December 2022 and of the group's incoming resources and application of resources 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.

BASIS OF OPINION

We conducted our audit in accordance with International Standards on Auditing (UK) (ISAs (UK)) and applicable law. Our responsibilities under those standards are further described in the Auditor's responsibilities for the audit of the financial statements section of our report. We are independent of the group in accordance with the ethical requirements that are relevant to our audit of the financial statements in the United Kingdom, including the Financial Reporting Council's Ethical Standard, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

CONCLUSIONS RELATING TO GOING CONCERN

In auditing the financial statements, we have concluded that the trustees'/director's use of the going concern basis of accounting in the preparation of the financial statements is appropriate.

Based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the charitable company's ability to continue as a going concern for a period of at least twelve months from when the financial statements are authorised for issue.

Our responsibilities and the responsibilities of the directors with respect to going concern are described in the relevant sections of this report.

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

OTHER INFORMATION

The trustees/directors are responsible for the other information contained within the annual report. The other information comprises the information included in the Annual Report, other than the financial statements and our Auditor's report thereon. Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon.

Our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether this gives rise to a material misstatement in the financial statements themselves. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

We have nothing to report in this regard.

OPINION ON OTHER MATTERS PRESCRIBED BY THE COMPANIES ACT 2006

In our opinion, based on the work undertaken in the course of the audit:

- the information given in the Trustees' report, which includes the directors' report prepared for the purposes of company law, for the financial year for which the financial statements are prepared is consistent with the financial statements; and
- the directors' report included within the Trustees' report has been prepared in accordance with applicable legal requirements.

MATTERS ON WHICH WE ARE REQUIRED TO REPORT BY EXCEPTION

In the light of the knowledge and understanding of the charitable company and its environment obtained in the course of the audit, we have not identified material misstatements in the Trustees' report.

We have nothing to report in respect of the following matters in relation to which 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 directors' remuneration specified by law are not made; or
- we have not received all the information and explanations we require for our audit.

RESPONSIBILITIES OF DIRECTORS

As explained more fully in the Trustees' responsibilities statement on page 7, the trustees are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view, and for such internal control as the trustees determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the trustees are responsible for assessing the charitable company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless the trustees either intend to liquidate the charitable company or to cease operations, or have no realistic alternative but to do so.

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

AUDITOR'S RESPONSIBILITIES FOR THE AUDIT OF THE FINANCIAL STATEMENTS

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an Auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud. The extent to which our procedures are capable of detecting irregularities, including fraud is detailed below:

We obtained an understanding of the legal and regulatory frameworks within which the company operates, focusing on those laws and regulations that have a direct effect on the determination of material amounts and disclosures in the financial statements. The laws and regulations we considered in this context were the Companies Act 2006 together with the Charities SORP (FRS102) 2019. We assessed the required compliance with these laws and regulations as part of our audit procedures on the related financial statement items.

In addition, we considered provisions of other laws and regulations that do not have a direct effect on the financial statements but compliance with which might be fundamental to the charitable company's ability to operate or to avoid a material penalty. We also considered the opportunities and incentives that may exist within the charitable company for fraud. The laws and regulations we considered in this context for the UK operations were Employment legislation, Charity Commission regulations and General Data Protection Regulation (GDPR).

Auditing standards limit the required audit procedures to identify non-compliance with these laws and regulations to enquiry of the Trustees and other management and inspection of regulatory and legal correspondence, if any.

We identified the greatest risk of material impact on the financial statements from irregularities, including fraud, to be the override of controls by management and income recognition. Our audit procedures to respond to these risks included enquiries of management about their own identification and assessment of the risks of irregularities, sample testing on the posting of journals, detailed substantive testing on the completeness of income, reviewing regulatory correspondence and reading minutes of meetings of those charged with governance.

Owing to the inherent limitations of an audit, there is an unavoidable risk that we may not have detected some material misstatements in the financial statements, even though we have properly planned and performed our audit in accordance with auditing standards. We are not responsible for preventing non-compliance and cannot be expected to detect non-compliance with all laws and regulations.

These inherent limitations are particularly significant in the case of misstatement resulting from fraud as this may involve sophisticated schemes designed to avoid detection, including deliberate failure to record transactions, collusion or the provision of intentional misrepresentations.

A further description of our responsibilities for the audit of the financial statements is located on the Financial Reporting Council's website at: www.frc.org.uk/auditorsresponsibilities. This description forms part of our Auditor's report.

HPH

Chartered Accountants

**INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF
THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**

USE OF OUR REPORT

This report is made solely to the charitable company's members 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 the charitable company's members for our audit work, for this report, or for the opinions we have formed.

.....

Sarah Wearing (Senior Statutory Auditor)

For and on behalf of HPH, Statutory Auditor

54 Bootham
York
YO30 7XZ

23 March 2023

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**CONSOLIDATED STATEMENT OF FINANCIAL ACTIVITIES**
AND INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31 DECEMBER 2022

	Note	Unrestricted Funds £	Restricted Funds £	Total 2022 £	Total 2021 £
Income and endowments from:					
Charitable activities					
Donations and legacies	4	12,512	-	12,512	8,901
Other trading activities					
Non-ancillary trading income	5	517,598	-	517,598	346,358
Other activities	5	583,214	-	583,214	528,073
Investments					
Investment income	6	37,969	711	38,680	35,519
Total income		£ 1,151,293	£ 711	£ 1,152,004	£ 918,851
Expenditure on:					
Raising funds	7				
Other activities		7,599	-	7,599	6,070
Investment		8,844	-	8,844	9,208
Non-ancillary trading		541,863	-	541,863	403,600
		558,306	-	558,306	418,878
Charitable activities	7				
Awards		30,117	-	30,117	19,026
Promoting best practice		628,306	-	628,306	561,636
		658,423	-	658,423	580,662
Total expenditure		£ 1,216,729	£ -	£ 1,216,729	£ 999,540
Net (expenditure) / income before (loss) / gain on investments		(65,436)	711	(64,725)	(80,689)
Net (loss) / gain on investments	13	(418,677)	1,049	(417,628)	258,106
Net (expenditure) / income for the year		(484,113)	1,760	(482,353)	177,417
Reconciliation of funds:					
Total funds brought forward		2,260,019	37,160	2,297,179	2,119,762
Total funds carried forward		£ 1,775,906	£ 38,920	£ 1,814,826	£ 2,297,179

The notes on pages 15 to 26 form part of these financial statements.

Income and net movement in funds derive wholly from continuing operations.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**CONSOLIDATED BALANCE SHEET**
AS AT 31 DECEMBER 2022

Registration number: 0125685

	Note	Consolidated		Charity only	
		2022	2021	2022	2021
		£	£	£	£
Fixed assets:					
Tangible fixed assets	12	46,972	4,180	22,017	3,186
Investments	13	1,803,443	2,206,609	1,338,037	1,613,264
<i>Total fixed assets</i>		1,850,415	2,210,789	1,360,054	1,616,450
Current assets:					
Stocks	14	66,701	58,091	55,970	55,456
Debtors	15	190,770	165,442	249,267	295,779
Investments	16	211,198	211,177	211,198	211,177
Cash at bank and in hand	26	272,184	362,093	93,062	119,347
<i>Total current assets</i>		740,853	796,803	609,497	681,759
Liabilities:					
Creditors: amounts falling due within one year	17	500,686	463,923	286,795	274,140
<i>Net current assets</i>		240,167	332,880	322,702	407,619
<i>Total assets less current liabilities</i>		2,090,582	2,543,669	1,682,756	2,024,069
Creditors: amounts falling due after more than one year	18	275,756	246,490	-	-
Total net assets		£ 1,814,826	£ 2,297,179	£ 1,682,756	£ 2,024,069
The funds of the charity:	19				
Unrestricted funds	20	1,775,906	2,260,019	1,643,836	1,986,909
Restricted funds	21	38,920	37,160	38,920	37,160
Total charity funds		£ 1,814,826	£ 2,297,179	£ 1,682,756	£ 2,024,069

The financial statements were approved by the Board of Trustees on 23 March 2023 and were signed on its behalf

*Andy Knight*A Knight
President and Trustee*Steve Boshier*S W Boshier
Vice President and Trustee

The notes on pages 15 to 26 form part of these financial statements.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**CONSOLIDATED CASH FLOW STATEMENT**
FOR THE YEAR ENDED 31 DECEMBER 2022

	Note	2022	2021
		£	£
Net cash used in operating activities	25	(66,139)	(32,284)
Cash flow from investing activities:			
Purchase of tangible fixed assets		(47,988)	(2,220)
Purchase of fixed asset investments		(283,555)	(150,500)
Sale of fixed asset investments		269,093	273,112
Interest received		3,780	4,060
Dividends received		34,900	31,459
Net cash (used in) / provided by investing activities		(23,770)	155,911
Change in cash and cash equivalents in the year	27	(89,909)	123,627
Cash and cash equivalents at beginning of the year		362,093	238,466
Cash and cash equivalents at end of the year	26	£272,184	£362,093

The notes on pages 15 to 26 form part of these financial statements.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

NOTES TO THE FINANCIAL STATEMENTS **FOR THE YEAR ENDED 31 DECEMBER 2022**

1 ACCOUNTING POLICIES

Legal entity

The Institution of Railway Signal Engineers is regulated by the Charities Commission (1046999), limited by guarantee and is registered in England and Wales. The address of the registered office and principal place of business is 1 Birdcage Walk, Westminster, London, SW1H 9JJ.

In the event of the charity being wound up, the liability in respect of the guarantee is limited to £1 per member of the charity.

The charity constitutes a public benefit entity as defined by FRS 102.

Basis of preparation

The financial statements have been prepared in accordance with the relevant version of the 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), the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS102), the Charities Act 2011 and the Companies Act 2006.

The Institution of Railway Signal Engineers 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 note(s).

The consolidated accounts include the results of Institution of Railway Signal Engineers and IRSE Enterprises Limited, which are consolidated on a line by line basis. In accordance with section 408 of the Companies Act 2006, no separate Statement of Financial Activities (SOFA) or Cash Flow has been presented for the Charity alone.

Going concern

The Trustees/Directors have prepared financial projections, taking into consideration the current economic climate and its potential impact on the sources of income and planned expenditure. They have a reasonable expectation that adequate financial resources are available to enable the Charitable Company to continue in operational existence for the foreseeable future, and have adequate contingency plans in the event that income streams are reduced. Consequently the financial statements have been prepared on the basis that the Charitable Company is a going concern.

Income

All income is recognised in the Statement of Financial Activities once the charity has entitlement to the funds, it is probable that the income will be received and the amount can be measured reliably. Subscription income relating to future periods is deferred and recognised in the period to which it relates.

For donations to be recognised, if not received before the year end, the charity will have been notified of the amounts and settlement date in writing.

Fixed asset gifts in kind are recognised when receivable and are included at fair value. They are not deferred over the life of the asset.

Investment income is earned through holding assets for investment purposes such as shares and property. It includes dividends, interest and rent, included on a receivable basis.

Revenue in the trading subsidiary is recognised to the extent that it is probable that the economic benefits will flow to the company and the revenue can be reliably measured. Revenue is measured as the fair value of the consideration receivable, excluding discounts, rebates, value added tax and other sales taxes. The company has no long term contracts or on-going projects. Licences issued are for a 5-year period and so any such income relating to future periods is deferred and recognised in the period to which it relates.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**1 ACCOUNTING POLICIES (continued)****Expenditure and irrecoverable VAT**

Expenditure is accrued as soon as a liability is considered probable, discounted to present value for longer-term liabilities. Expenditure attributable to more than one cost category is apportioned to them on the basis of the estimated amount attributable to each activity in the year, either by reference to staff time or the use made of the underlying assets, as appropriate. Expenses are shown net of VAT with the irrecoverable element included within direct costs.

Raising funds includes all expenditure incurred by the charity to raise funds for its charitable purposes and includes costs of fundraising activities, events and non-charitable trading.

Governance costs represent those costs attributable to the management of the charity's assets, organisational administration and compliance with constitutional and statutory requirements.

Support costs are those costs that assist the work of the charity but do not directly represent charitable activities and include office costs and governance costs, including payroll costs. They are incurred directly in support of expenditure on the objectives of the charity. Where support costs cannot be directly attributed to particular headings they have been allocated to costs of raising funds and expenditure on charitable activities on a basis consistent with use of the resources.

Tangible fixed assets

Tangible fixed assets are included in the financial statements at their historical cost. Depreciation is calculated to write off the cost of fixed assets over their expected useful lives on a straight line basis. The rates used are as follows:

Fixtures and fittings	20% per annum straight line
IT and software	33% per annum straight line

Stocks

Stocks are stated at the lower of cost and net realisable value, after making due allowance for obsolete and slow moving stock.

Fund accounting

General funds - These are funds which can be used in accordance with the charity's charitable objectives at the discretion of the board.

Designated funds - these comprise unrestricted funds that have been set aside by the trustees for particular purposes. The aim and use of each designated fund is set out in the notes to the financial statements.

Restricted funds - These are subject to specific restrictive conditions imposed by the donors of funds received for specific purposes and projects.

Financial instruments

The charity only has financial assets and financial liabilities of a kind that qualify as basic financial instruments. Basic financial instruments are initially recognised at transaction value and subsequently measured at their settlement value with the exception of bank loans which are subsequently measured at amortised cost using the effective interest method.

Cash at bank and in hand

Cash at bank and cash in hand includes cash and any short term deposit accounts with a maturity of three months or less from the date of opening.

Other financial assets

Other financial assets are initially measured at fair value, which is normally the transaction price. Such assets are subsequently carried at fair value and the changes in fair value are recognised in the Statement of Financial Activities, except investments that are not publicly traded and whose fair values cannot be measured reliably are measured at cost less impairment.

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.

Investments

The investment portfolios have been valued at market value at 31 December 2022. The Statement of Financial Activities includes the net gains and losses on investments arising on revaluation at the year end and on disposals throughout the year. Realised gains and losses on sales of investments are calculated as the difference between the sale proceeds and opening market value. Unrealised gains and losses represent the movement between market values.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**1 ACCOUNTING POLICIES (continued)****Other financial instruments**

All other financial instruments are initially recognised at fair value, which is normally the transaction price. Other financial instruments are subsequently measured at fair value with any changes in the fair value recorded in the Statement of Financial Activities.

Creditors and provisions

Creditors and provisions are recognised where the charity 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.

Operating leases

Rentals payable under operating leases are charged in the Statement of Financial Activities on a straight line basis over the lease term.

Foreign currencies

Assets and liabilities in foreign currencies are translated into sterling at the rates of exchange ruling at the balance sheet date. Transactions in foreign currencies are translated into sterling at the rate of exchange ruling at the date of transaction. Exchange differences are taken into account in arriving at the operating result.

Pension costs and other post-retirement benefits

The charitable company operates a defined contribution pension scheme. Contributions payable to the charitable company's pension scheme are charged to the Statement of Financial Activities in the period to which they relate.

Significant judgements and estimates

In the application of the group's accounting policies, the directors are required to make judgements, estimates and assumptions in areas where this information is not readily available from other sources. In particular the directors use judgment in assessing the carrying amount of assets and liabilities. The estimates and assumptions are based on the historical experience and other factors that are considered to be relevant. Actual results may differ from these estimates.

The estimates and underlying assumptions are reviewed on an ongoing basis. Revisions to accounting estimates are recognised in the period in which the estimate is revised where the revision affects only that period, or in the period of the revision and future periods where the revision affects both current and future periods.

Investments

Investments are included on the Balance Sheet and are stated at market value as at the balance sheet date. Gains and losses on disposal and revaluations of investments are charged or credited to the Statement of Financial Activities.

2 TAXATION

As a registered charity, The Institute of Railway Signal Engineers is exempt from the tax on income falling within sections 466 to 493 of the Corporation Tax Act 2010 to the extent that this is applied to its charitable objects. No tax charges have arisen in the Company.

3 OPERATING SURPLUS

The surplus for the year is stated after charging:

	2022	2021
	£	£
Depreciation	5,196	17,598
Auditor's remuneration	6,160	6,000

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****4 CHARITABLE ACTIVITIES - DONATIONS AND LEGACIES**

	2022	2021
	£	£
Donations	<u>£ 12,512</u>	<u>£ 8,901</u>

All donations related to unrestricted funds.

5 OTHER TRADING ACTIVITIES

	2022	2021
	£	£
Other activities		
Subscriptions	495,058	451,423
Professional reviews	6,870	7,710
Advertising	3,900	13,513
Booklets & textbooks	22,030	8,943
IRSE ties, cufflinks and badges	-	64
Examination fees and materials	53,205	44,920
Proceeds from members' lunch	2,151	1,500
	<u>583,214</u>	<u>528,073</u>

All other activities relate to unrestricted funds.

Trading income

IRSE Enterprises Limited	<u>517,598</u>	<u>346,358</u>
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6 INVESTMENT INCOME

	2022	2021
	£	£
Equities & Government stocks	27,747	24,193
Interest receivable	3,167	4,053
IRSE Enterprises Limited	7,766	7,273
	<u>£ 38,680</u>	<u>£ 35,519</u>

£764 of investment income relates to restricted funds (2021: £736).

7 ANALYSIS OF EXPENDITURE

	Staff costs	Other	Depreciation	2022	2021
	£	£	£	£	£
Raising funds					
Other activities	2,285	5,297	17	7,599	6,070
Investment	-	8,844	-	8,844	9,208
Non-ancillary trading	184,191	354,152	3,520	541,863	403,600
Total raising funds	<u>186,476</u>	<u>368,293</u>	<u>3,537</u>	<u>558,306</u>	<u>418,878</u>
Charitable activities					
Awards	9,141	20,909	67	30,117	19,026
Promoting best practice	217,109	409,605	1,592	628,306	561,636
Total charitable activities	<u>226,250</u>	<u>430,514</u>	<u>1,659</u>	<u>658,423</u>	<u>580,662</u>
Total Expenditure	<u>£ 412,726</u>	<u>£ 798,807</u>	<u>£ 5,196</u>	<u>£ 1,216,729</u>	<u>£ 999,540</u>

All raising funds expenditure relates to unrestricted funds.

£nil of charitable activities expenditure relates to restricted funds (2021: £300).

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**8 GOVERNANCE COSTS**

	2022	2021
	£	£
Auditors' remuneration	£ 6,160	£ 6,000

All governance costs relate to unrestricted expenditure.

9 AUDITOR'S REMUNERATION

Amounts payable to the auditor for statutory audit services of the group are £6,000 (2021 - £6,000) and of the charity are £4,000 (2021 - £4,000).

10 TRUSTEE REMUNERATION AND BENEFITS

Travel and training expenses totalling £12,541 were reimbursed to three Trustees during the year. In 2021 no Trustees' expenses were reimbursed during the year.

11 STAFF COSTS

	2022	2021
	£	£
Wages and salaries	357,175	344,664
Social security costs	29,774	32,727
Defined contribution pension costs	25,777	24,747
	<u>£ 412,726</u>	<u>£ 402,138</u>

The average number of employees during the year was as follows:

	2022	2021
Administration	<u>12</u>	<u>12</u>

There are no employees who received total employee benefits (excluding employer pension costs) of more than £60,000 (2021 - None).

The key management personnel of the charitable company, comprise the Trustees, Chief Executive Officer and Treasurer (2021 - Trustees, Chief Executive Officer, Treasurer and HR Advisor) as disclosed on page 6. The total amount of employee benefits (including employer pension contributions) received by key management personnel for their services to the charitable company was nil (2021: nil). The total amount paid to the key management personnel in respect of their services totalled £55,789 (2021: £86,952).

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**12 TANGIBLE FIXED ASSETS - GROUP****Fixtures and
fittings
£**

Cost:	
At 1 January 2022	330,900
Additions	47,988
At 31 December 2022	<u>378,888</u>
Depreciation:	
At 1 January 2022	326,720
Charge for the year	5,196
At 31 December 2022	<u>331,916</u>
Net book values:	
31 December 2022	<u>£ 46,972</u>
31 December 2021	<u>£ 4,180</u>

All of the tangible fixed assets relate to unrestricted funds.

TANGIBLE FIXED ASSETS - CHARITY**Fixtures and
fittings
£**

Cost:	
At 1 January 2022	300,935
Additions	20,507
At 31 December 2022	<u>321,442</u>
Depreciation:	
At 1 January 2022	297,749
Charge for the year	1,676
At 31 December 2022	<u>299,425</u>
Net book values:	
31 December 2022	<u>£ 22,017</u>
31 December 2021	<u>£ 3,186</u>

All of the tangible fixed assets relate to unrestricted funds.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****13 FIXED ASSET INVESTMENTS - GROUP**

	Equities £	Government securities £	Total £
Market value			
At 1 January 2022	2,000,965	205,644	2,206,609
Additions	201,291	82,264	283,555
Disposals	(182,978)	(86,115)	(269,093)
Revaluation	(360,573)	(57,055)	(417,628)
At 31 December 2022	<u>£ 1,658,705</u>	<u>£ 144,738</u>	<u>£ 1,803,443</u>

£37,648 of investments relates to restricted funds (2021: £36,599).

£1,049 of gains on investments relates to restricted funds (2021: £933).

FIXED ASSET INVESTMENTS - CHARITY

	Subsidiary company £	Equities £	Government securities £	Total £
Market value				
At 1 January 2022	4,415	1,452,351	156,498	1,613,264
Additions	-	144,938	65,113	210,051
Disposals	-	(137,473)	(54,716)	(192,189)
Revaluation	-	(239,249)	(53,840)	(293,089)
At 31 December 2022	<u>£ 4,415</u>	<u>£ 1,220,567</u>	<u>£ 113,055</u>	<u>£ 1,338,037</u>

£37,648 of investments relates to restricted funds (2021: £36,599).

£1,049 of gains on investments relates to restricted funds (2021: £933).

The charitable company's investments at the balance sheet date in the share capital of companies include the following:

IRSE Enterprises Limited

Registered office: 4th Floor, 1 Birdcage Walk, Westminster, London, SW1H 9JJ

Nature of business: Administration & finance support for parent

	%
Class of share:	holding
Ordinary	100

	2022 £	2021 £
Aggregate capital and reserves	136,803	277,523
(Loss) / profit for the year	<u>(140,720)</u>	<u>35,847</u>

No donation (2021: £nil) was made from the company to the charity in the year due to the fact that the company did not make a taxable profit.

14 STOCKS - GROUP

	2022 £	2021 £
Stocks	<u>£ 66,701</u>	<u>£ 58,091</u>

STOCKS - CHARITY

	2022 £	2021 £
Stocks	<u>£ 55,970</u>	<u>£ 55,456</u>

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****15 DEBTORS**

	Consolidated		Charity	
	2022	2021	2022	2021
	£	£	£	£
Trade debtors	77,076	67,078	-	-
Other debtors	3,435	4,964	3,333	4,964
Prepayments and accrued income	15,900	16,529	-	-
VAT	94,359	76,871	81,213	63,292
Amounts owed by group undertakings	-	-	164,721	227,523
	£ 190,770	£ 165,442	£ 249,267	£ 295,779

All debtors relate to unrestricted funds.

16 CURRENT ASSET INVESTMENTS - GROUP

	2022	2021
	£	£
National Savings	£ 211,198	£ 211,177

All debtors relate to unrestricted funds.

17 CREDITORS: amounts falling due within one year

	Consolidated		Charity	
	2022	2021	2022	2021
	£	£	£	£
Trade creditors	39,925	53,457	28,901	45,749
Accruals	26,697	21,547	22,429	17,008
Deferred income	427,036	382,197	230,178	206,682
Other creditors	7,028	6,722	5,287	4,701
	£ 500,686	£ 463,923	£ 286,795	£ 274,140

All creditors relate to unrestricted funds.

18 CREDITORS: amounts falling due after more than one year - GROUP

	2022	2021
	£	£
Other creditors	£ 275,756	£ 246,490

Representing the proportion of licence fees received in advance, which will be credited to income after more than one year.

19 ANALYSIS OF NET ASSETS BETWEEN FUNDS

	Tangible fixed assets	Investments	Net current (liabilities)/ assets	Long term liabilities	Total 2022
	£	£	£	£	£
Unrestricted funds	22,018	1,295,974	321,429	-	1,639,421
Restricted funds	-	37,648	1,272	-	38,920
Total Charity Funds	22,018	1,333,622	322,701	-	1,678,341
IRSE Enterprises Limited	24,954	469,821	(82,534)	(275,756)	136,485
Total for the group	£ 46,972	£ 1,803,443	£ 240,167	£ (275,756)	£ 1,814,826

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 DECEMBER 2022****19 ANALYSIS OF NET ASSETS BETWEEN FUNDS - continued***2021 comparatives*

	Tangible fixed assets	Investments	Net current (liabilities)/ assets	Long term liabilities	Total 2021
	£	£	£	£	£
Unrestricted funds	3,187	1,572,250	407,059	-	1,982,496
Restricted funds	-	36,599	561	-	37,160
Total Charity Funds	3,187	1,608,849	407,620	-	2,019,656
IRSE Enterprises Limited	993	597,760	(74,740)	(246,490)	277,523
Total for the group	£ 4,180	£ 2,206,609	£ 332,880	£ (246,490)	£ 2,297,179

20 UNRESTRICTED FUNDS

	Balance at 01/01/2022	Income	Expenditure	Losses on investments	Transfers	Balance at 31/12/2022
	£	£	£	£	£	£
Designated funds						
Scholarship	78,315	3	-	-	-	78,318
Alan Fisher memorial /						-
Frank Hewlett Bequest	430,288	3,206	-	-	-	433,494
General Development	307,000	-	-	-	-	307,000
Future ASPECT Conference	10,000	-	-	-	-	10,000
International conventions	27,500	-	-	-	-	27,500
Textbook Preparation	7,500	-	-	-	-	7,500
	860,603	3,209	-	-	-	863,812
Unrestricted funds						
General Fund	1,109,800	622,720	(674,866)	(294,138)	-	763,516
Charity	1,970,403	625,929	(674,866)	(294,138)	-	1,627,328
Non charitable trading funds	289,616	525,364	(541,863)	(124,539)	-	148,578
Total for the group	£ 2,260,019	£ 1,151,293	£ (1,216,729)	£ (418,677)	£ -	£ 1,775,906
<i>2021 comparatives</i>	Balance at 01/01/2021	Income	Expenditure	Gains on investments	Transfers	Balance at 31/12/2021
	£	£	£	£	£	£
Designated funds						
Scholarship	78,068	247	-	-	-	78,315
Alan Fisher memorial /						
Frank Hewlett Bequest	425,321	4,967	-	-	-	430,288
General Development	307,000	-	-	-	-	307,000
Future ASPECT Conference	10,000	-	-	-	-	10,000
International conventions	27,500	-	-	-	-	27,500
Textbook Preparation	7,500	-	-	-	-	7,500
	855,389	5,214	-	-	-	860,603
Unrestricted funds						
General Fund	974,813	559,270	(595,640)	171,357	-	1,109,800
Charity	1,830,202	564,484	(595,640)	171,357	-	1,970,403
Non charitable trading funds	253,769	353,631	(403,600)	85,816	-	289,616
Total for the group	£ 2,083,971	£ 918,115	£ (999,240)	£ 257,173	£ -	£ 2,260,019

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS

NOTES TO THE FINANCIAL STATEMENTS **FOR THE YEAR ENDED 31 DECEMBER 2022**

21 RESTRICTED FUNDS	Balance at 01/01/2022 £	Income £	Expenditure £	Gains on investments £	Balance at 31/12/2022 £
Restricted funds					
Dell Bequest	24,064	547	-	808	25,419
Thorrowgood Bequest	13,096	164	-	241	13,501
	<u>£ 37,160</u>	<u>£ 711</u>	<u>£ -</u>	<u>£ 1,049</u>	<u>£ 38,920</u>
 <i>2021 comparatives</i>					
	Balance at 01/01/2021 £	Income £	Expenditure £	Gains on investments £	Balance at 31/12/2021 £
Restricted funds					
Dell Bequest	23,127	519	(300)	718	24,064
Thorrowgood Bequest	12,664	217	-	215	13,096
	<u>£ 35,791</u>	<u>£ 736</u>	<u>£ (300)</u>	<u>£ 933</u>	<u>£ 37,160</u>

Dell Bequest

The Dell Award is made annually under a bequest of the late Robert Dell OBE (Past President). It is awarded to a member of the Institution employed by London Underground Ltd (or its successor bodies) for achievement of a high standard in the science and application of railway signalling. The award consists of a plaque with a uniquely designed shield, engraved with the recipient's name together with a cheque.

Thorrowgood Bequest

The Thorrowgood Scholarship is awarded annually if a candidate has excelled in the IRSE's Professional Examination. The award, which is presented at the Institution's AGM in the April following the examination, comprises the Thorrowgood Scholarship Medallion and a cheque.

22 OPERATING LEASE COMMITMENTS

As at 31 December 2022 the charitable company had future minimum lease payments under non-cancellable operating leases as follows:

	2022 £	2021 £
Within one year	10,291	10,291
Between one and five years	20,582	30,873
	<u>£ 30,873</u>	<u>£ 41,164</u>

23 RELATED PARTIES

Other than those detailed in notes 10 and 11, there were no other related parties in the year.

24 ULTIMATE CONTROLLING PARTY

There is no ultimate controlling party. The charity is managed by its board of trustees. The liability of each of the charity's trustees is limited to £1.

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022

25 RECONCILIATION OF NET (EXPENDITURE) / INCOME TO NET CASH FLOW FROM OPERATING ACTIVITIES	2022	2021	
	£	£	
Net (expenditure) / income for the reporting period	(482,353)	177,417	
Depreciation of tangible Fixed Assets	5,196	17,598	
Losses / (gains) on Investments	417,628	(273,377)	
Interest received	(3,780)	(4,060)	
Dividends received	(34,900)	(31,459)	
Increase in Stocks	(8,610)	(9,229)	
(Decrease) / increase in Debtors	(25,328)	42,088	
Increase in Current Asset Investments	(21)	(1,509)	
Increase in Creditors	66,029	50,247	
Net cash used in operating activities	£ (66,139)	£ (32,284)	
26 ANALYSIS OF CASH AND CASH EQUIVALENTS - GROUP	2022	2021	
	£	£	
Cash at bank and in hand	272,184	362,093	
Total cash and cash equivalents	£ 272,184	£ 362,093	
ANALYSIS OF CASH AND CASH EQUIVALENTS - CHARITY	2022	2021	
	£	£	
Cash at bank and in hand	93,062	119,347	
Total cash and cash equivalents	£ 93,062	£ 119,347	
27 ANALYSIS OF CHANGES IN NET DEBT			
	At		At
	01/01/2022	Cash-flows	31/12/2022
	£	£	£
Cash	362,093	(89,909)	272,184
		(89,909)	
	362,093	(89,909)	272,184

THE INSTITUTION OF RAILWAY SIGNAL ENGINEERS**NOTES TO THE FINANCIAL STATEMENTS**
FOR THE YEAR ENDED 31 DECEMBER 2022**28 COMPARATIVE CONSOLIDATED STATEMENT OF FINANCIAL ACTIVITIES AND INCOME AND EXPENDITURE ACCOUNT**

	Unrestricted Funds 2021 £	Restricted Funds 2021 £	Total 2021 £
Income and endowments from:			
Charitable activities			
Donations and legacies	8,901	-	8,901
Other trading activities			
Non-ancillary trading income	346,358	-	346,358
Other activities	528,073	-	528,073
Investments			
Investment income	34,783	736	35,519
Total income	<u>£ 918,115</u>	<u>£ 736</u>	<u>£ 918,851</u>
Expenditure on:			
Raising funds			
Other activities	6,070	-	6,070
Investment	9,208	-	9,208
Non-ancillary trading	403,600	-	403,600
	<u>418,878</u>	<u>-</u>	<u>418,878</u>
Charitable activities			
Awards	18,726	300	19,026
Promoting best practice	561,636	-	561,636
	<u>580,362</u>	<u>300</u>	<u>580,662</u>
Total expenditure	<u>£ 999,240</u>	<u>£ 300</u>	<u>£ 999,540</u>
Net (expenditure) / income before gain on investments	(81,125)	436	(80,689)
Net gain on investments	257,173	933	258,106
Net income / (expenditure) for the year	<u>176,048</u>	<u>1,369</u>	<u>177,417</u>
Reconciliation of funds:			
Total funds brought forward	2,083,971	35,791	2,119,762
Total funds carried forward	<u>£ 2,260,019</u>	<u>£ 37,160</u>	<u>£ 2,297,179</u>

This is the comparative statement of financial activities, please refer to page 12 for the current year statement.