

London & Southern Counties Minerals Industries Institute



ANNUAL REPORT OF COUNCIL - YEAR ENDING 30th JUNE 2023

The Council of the London & Southern Counties Minerals Industries Institute (MinSouth) has pleasure in presenting its Report for the 2022-2023 session, ending 30th June 2023.

OFFICERS AND MEMBERS OF COUNCIL:

President:	Colin Morrish
Vice Presidents:	Mark Burnett Isobel Mackay
Honorary Treasurer:	Paul Griffin
Honorary Secretary:	Clive Hallett (resigning Oct 23)
Membership:	Andrew Hindmarch
Sponsorship:	Sue Struthers
Communications:	Colin Morrish
Web Master:	Mike McLoughlin

Continuing Past Presidents:

Simon Kocher	2022
Mike McLoughlin	2021
Sue Struthers	2020
Stuart MacGowan	2019

Elected Councillors:

Robert Bacon	Geoff Hooper
Alan Bozeat	Ian Jackson
Mark Davis	Alex Norori-McCormac
Iain Duncan	Richard Roethe
Pat Foster	Aymone Schendel
Andrew Hindmarch	Karin Tynelius

Co-opted Councillors:

John Monhemius
Michael Forrest
Gawen Jenkin
Gordon Stove
Bianca Depres

Councillors Resigned During Year:

Alan Stainer
Gavin Bowyer

PRESIDENTS REPORT:

Despite occasional difficulties caused by labour disruption, the 2022/3 **MinSouth** year managed to conduct lectures regularly. MinSouth members and other interested people could attend lectures either in person or virtually: these were referred to as hybrid lectures. Occasionally, lectures were held only virtually. Our two main concourses for MinSouth lectures are at the IoM3 building on Euston Street and The Counting House on Cornhill pub. Both these buildings are in London. Unfortunately, the room where MinSouth had most meetings in The Counting House, the Griffin Room, is being renovated to be used for hotel rooms. As such, we are planning to continue using The Counting House but will be using other rooms. All the presentations discussed can be viewed by going to the MinSouth web site – <https://minsouth.org.uk> – and choose the **Meeting Videos** link unless otherwise noted.

The first lecture was presented by Ken Darlington, *Vice-president of Business Development for **Ultra-Safe Nuclear Corporation (USNC)*** entitled *Using Micro-Nuclear Reactors at mining operations*. This was on October 18th and was hybrid where the physical location was The Counting House. Mr. Darlington introduced the green technology of using micro-Nuclear Reactors to power mining operations from Montréal, Québec Canada. The second lecture was virtual and was on November 10th entitled *Trends and Best Practices in ESG in Mining*. Katie Fedosenko, *Director, ESG Engagement* presented this topic for **Teck Resources Limited** who had opened an office in London in 2022. Ms. Fedosenko discussed Teck's work in mining copper, zinc and steel making coal throughout the world and how they are focusing on Environment, Social and Governance. The next lecture was hybrid and was on January 12th. It was entitled *Worker Health Considerations in Rare Earth Element Mining*. Ms. Gordon is a Certified Industrial Hygienist who is a *Senior Occupational Hygienist* with **WSP Golder**. She is based in Nanaimo, BC Canada. She presented this talk virtually from Nanaimo. MinSouth members watched it either from the **Mine** in the **IoM3 building** on Euston Road or from another location of their choosing.

Annually, we have a joint meeting with the **British Tunnelling Society**. This was held on the 9th of February as a hybrid meeting where the physical portion was held in the **Institution of Civil Engineers** building in London. Clare Onal of **Mott MacDonald** presented *Kidston Pumped Storage Project*. The recording of this presentation is available at [BTS/MinSouth February Lecture - Kidston Pumped Storage Project - YouTube](#)

The MinSouth Heat of the **Young Persons Lecture Competition** was held on March 9th. It was also held as a hybrid event. The location for attendees was at the **Royal School of Mines** in Kensington, London. This year's competition winner was Lara Tritton from the University of Leicester. Her lecture was entitled – *Sourcing critical metals Te, Bi, and W as by-products from Björkdal Gold Mine, Sweden*. The competition was similar with two joint second places winners Marek Zatapilo from Imperial College presented *Iron oxide impurities in ore concentrates from the Moma titanium mine, Mozambique – their origin and implications for processing* and Oscar Ryans from WSP presented *Tailing Storage Dam Break Assessment – Triple Cascade Failure*. All three of these competition lectures can be viewed on the MinSouth website under Meeting Videos

On April 13th, Joe Carr, *Mining Innovation Director* of **Axora** presented *An overview of seabed mining operations*. This was the first joint meeting held with the **Young Mining Professionals of London**. It was a hybrid meeting where the physical base was in The Counting House on Cornhill. Some technical difficulties were encountered. People trying to attend virtually could not hear. The recording was also poor. Axora kindly offered to rerecord it. The rerecording of this presentation is available on the Axora YouTube channel at [YMP/MinSouth April Lecture - Deep Sea Mining - An overview of seabed mining operations - YouTube](#)

The joint **Women in Mining-UK/MinSouth** on May 18th was virtual and was entitled *Indigenous Women in the Mining Industry: From Challenges to Opportunities*. This was a panel discussion of global indigenous women leaders who shared the challenges they continue to encounter in the mining industry while embracing the opportunities. Indigenous women from Canada, South Africa and Australia participated in the discussion.

The **Prestige Lecture** is MinSouth's archetype lecture where a member of a mining companies' executive gives an insightful lecture. This year Paul Atherley, *Chairman of Pensana Plc.* gave an excellent presentation entitled: *The advancement of UK's REE self-sustenance.*

Finally, **MinSouth's Annual Quiz** was on December 14th, 2022. Julian Aldridge once again did an excellent job of preparing and giving the questions. It was originally intended to hold this quiz in hybrid format. However, labour disruption prevented that so it was all virtual & there were fewer attendees than usual. However, the winning team was comprised of the Honorable Secretary, Clive Hallett, and last year's president, Simon Kocher who applied their knowledge of mineral processing and crystal morphology to answer the questions.

These events were advertised by posting on the MinSouth webpage as both a Calendar event and MinSouth News. For those members who have specified through the **Institute of Materials, Minerals and Mining (IoM3)** that **MinSouth** is a preferred community, MinSouth activities are posted on the IoM3 web page. We also post the activities through MinSouth's X (formerly Twitter) account. Finally, we are now posting on MinSouth's new LinkedIn page. It is a good avenue for following MinSouth activities so feel free to follow us. Updates are no longer being posted on the old MinSouth LinkedIn Group page. It is being planned to discontinue this page at the end of 2023.

Although many of our attendance figures to the venues were lower, more people attended most lectures than usual because they were provided virtually. Except for that one April blip, virtual presentations were accessible to all.

MinSouth continues to provide financial support to students. Three students from *Camborne School of Mines* were given bursaries.

Next year, there will be some changes in the council. In addition to the fact that I will be transferring presidency to Mark Burnett, we will have a new Honorary Secretary. Our former Honorary Secretary, Clive Hallett, will be stepping down due to commitments following being elected as Borough Councillor for Ashford. Thanks for doing an excellent job, Clive. Gordon Stove will assume many of the duties of Honorary Secretary for MinSouth. Other Councillors will be providing assistance.

MEMBERSHIP:

The Society is an Affiliated Society to the Institute of Materials, Minerals and Mining (IoM3). Most attendees to the Society events are IoM3 members who have elected to be notified of Society events. In addition, there are a number of affiliate members who have joined MinSouth directly and are not members of IoM3.

MEETINGS:

General Meetings:

The MinSouth AGM was held online on Tuesday 18th October 2022 where Colin Morrish was appointed President.

9 technical meetings were held and 1 social event (quiz). Of the technical meetings, 3 were held on-line only and the rest (6) were hybrid with both physical and on-line attendees. These included joint events held with the British Tunnelling Society (Feb), Women in Mining (May), Young Mining Professionals (April) and the SCMMMS (June), as well as the Young Persons Lecture Competition (March).

Average attendance for the top 8 technical meetings was 65 persons (54 - 2021/22). The growth in total numbers of attendees (including on-line) hides a downward trend in physical numbers. The number of physical attendees was 22 (31 - 2021/22) and on-line attendees 43 (23 - 2021/22). This illustrates the

growing preference for on-line attendance even when a physical meeting was held. This will have consequences for the size and type of venues that we can use for future physical meetings. It is MinSouth's desire to continue holding physical meetings for the foreseeable future.

The MinSouth presentations in 2022/23 were:

Oct:	Micro Reactors in Mining	Ken Darlington
Nov:	Trends and Best Practice in ESG in Mining	Katie Fedosenko
Dec:	Mining Quiz	Julian Aldridge (Quiz-Host)
Jan:	Worker Health Considerations in Rare Earth Mining	Courtney Gordon
Feb:	Kidston Pumped Storage Hydro	Clare Onal
Mar:	Young Persons Lecture Competition	
Apr:	Deep Sea Mining	Joe Carr
May:	Indigenous Women in Mining Industry	Stacy Hope (Chair)
June:	The Advancement of UK's REE self-sustenance	Paul Atherley
June:	Critical Raw Materials – a future (im)perfect	Jasmine Bone (Chair)

The Council expresses thanks to all authors for their time and effort spent in preparing and presenting papers at MinSouth events. It is recognised that pressure of work leaves little free time for such voluntary, learned society contributions.

Young Persons' Lecture Competition:

The local heat of the Young Persons' Lecture Competition was held online. The selected presentations were:

Marek Zastapilo	<i>Iron oxide impurities in ore concentrates from the Moma titanium mine, Mozambique</i>
Lara Tritton	<i>Sourcing critical metals Te, Bi and W as by-products from Björkdal Gold Mine</i>
Oscar Ryans	<i>Tailings Storage Dam Break Assessment – Triple Cascade Failure</i>

The winner was Lara Tritton who received a £200 cheque. The runners-up received £100 each.

Council expresses thanks to all the student representatives for encouraging submissions. Also, for the ongoing support from WSP, formerly Golder Associates, for sponsoring this event and for CSA Global and Knight Piésold, two of our other sponsors, for providing our judges.

SOCIAL ACTIVITIES:

Mining Quiz:

A mining themed quiz was again held in December. Council would like to express its thanks to Julian Aldridge for compiling the questions and hosting the competition.

Mining Sundowner:

Although the Sundowner is not formally a MinSouth event, it has traditionally been supported by MinSouth members. It is on the last Thursday of every month. Thanks are due to the organising committee which includes Michael Forrest representing MinSouth.

COMMUNICATIONS:

Web Site:

The web site provides comprehensive information and news on MinSouth activities. The site has now been updated and moved to a new server. The Council expresses its thanks to Mike McLoughlin for his help with the new site.

Social Networking:

The move to the use of online presentations during the year has also resulted in a significant increase in use of social media. During the year there were 2,210 views of recorded presentations compared with 2,580 the year before. The MinSouth LinkedIn site has 590 members (567 - 2021/22) and X (Twitter) account with 808 followers (731 - 2021/22). Due to problems with the existing LinkedIn site a new site was created that should be easier to manage and share. Existing members are encouraged to transfer to the new site.

COUNCIL MEETINGS:

Ten Council Meetings were held during the year. These are held before the General Meeting each month. There was an additional on-line meeting in September 2022.

FUNDING:

The IoM3 sponsored the society a total of £3,636 in 2022/23 (£3,224 - 2021/22). In addition another £1,951 was received from IoM3 at the very end of the year which relates to the 2023/24 period.

MinSouth received corporate sponsorship of £3,300 in 2022/23 (£3,800 - 2021/22)

Gold:

Bara Consulting
CSA Global

Silver:

Knight Piésold
Behre Dolbear
WSP Golder

Bronze:

SP Angel

A further £1,000 relating to the 2021/22 and 2022/23 years has been promised by WSP Golder but funds are not expected until the 23/24 period.

MinSouth is most grateful to the IoM3 and all sponsors for their ongoing support. This sponsorship allows MinSouth to pursue its objective of supporting the education and development of the next generation of mining professionals.

The Council wishes to thank Sue Struthers as Sponsorship Secretary for her efforts in engaging with our sponsors.

SCHOOLS PROGRAMME:

MinSouth continued its educational support through the year. Specifically, this involved maintaining contact with the Earth Science Teachers Association, (ESTA) and including information and teaching materials for both teachers and students on the MinSouth website.

STUDENT PROGRAMME:

Sponsorship and Support:

MinSouth is continuing to sponsor university students. The total support given to Students over the past 13 years now totals £32,000, with 28 students having received grants. This year MinSouth sponsored Adelaide Swaneopoel (CSM) with a £1,000 award, and Isaac Young (CSM) and Pia Airisniemi (CSM) with £500 each to assist through their undergraduate studies. In addition, prizes totaling £400 were awarded at the Young Persons' Lecture Competition.

Student Sections:

MinSouth continues to support Student Sections at several universities including the Camborne School of Mines and the Royal School of Mines. We continue to reach out to other institutions running appropriate courses with the aim of encouraging further student participation in our activities.

CHARITABLE DONATIONS:

A donation was made during the year to Camborne School of Mines Mining Games for £500.

FINANCIAL REPORT:

The Society's Annual Statement of Accounts are summarised below:

	2023*	2022	2021	2020
Total Income for the year to June 30 th	£9,015*	£7,175	£5,763	£10,739
Total Expenditure for the year to June 30 th	£6,753	£8,018	£2,490	£7,227
Excess of income over expenditure	£2,262*	(£843)	£3,273	£3,512
Total Cash held as of June 30 th	£27,986	£25,724	£26,567	£23,293

Note*

The income for 2023 includes the early payment of £1,951 of IoM3 Grant that relates to the following year (23/24). For comparative purposes, the income should exclude this amount and therefore would be £7,064 for the 2023 year and the excess income over expenditure would be £311.

2022/2023					
Opening Cash					
		Clydesdale		25,698.81	
		Paypal		24.97	
					25,723.78
Receipts	IoM3 funding		5,587.00		
	Sponsorship		3,300.00		
	Memberships		125.00		
	Merchandise		-		
	Dinner		-		
	Raffle		-		
	Other		3.54		
				9,015.54	
Payments	YPLC		644.93		
	Student IoM3 Membership		-		
	Sponsorship		2,500.00		
	Meeting Rooms		2,168.03		
	Items for Sale		-		
	Prestige Lecture		-		
	Honorariums		1,400.00		
	Website		-		
	Dinner		-		
	Misc		40.00		
	Charges		-		
				6,752.96	
Surplus/Deficit				2,262.58	
					27,986.36
Closing Cash		Clydesdale		27,986.36	
		Paypal		-	
					27,986.36

The impact of the COVID pandemic and subsequent travel disruptions due to train strikes continued to be evident. The grant received from IoM3 for the year was £3,636 (see note above) compared with £3,225 the year before. On the expenditure side, not all meetings could be held physically which kept expenditure down, but this was offset by increasing venue costs and minimum charges for catering. Application for travel grants was also zero. For the 3rd year this allowed for greater sponsorship of undergraduates with 3 students being supported.

Expenditure was £6,753 compared with £8,018 the previous year.

The net result was the Society saw increase of funds for the year of £311. In addition, the next IOM3 grant payment for 2023/24 was received before the year end and so boosted funds a further £1,951.

Cash reserves stand at £27,986 as of 30th June 2023.

SPECIAL THANKS:

The President wishes to express his sincere thanks to all Councillors for their support throughout the year, despite often hectic work schedules. Without the willing support of the councillors the post of President would have been a lot harder.

Finally, Council wishes incoming President Mark Burnett every success in his year of office.

Colin Morrish
President 2022 – 2023 September 2023.