



The Minerals Engineering Society

(formerly The Coal Preparation Society)

Southern Group

NEWSLETTER

Summer Edition 2006

The Hopley Lecture

Douglas expresses his ability yet again to "Give and Take"

The Hopley Lecture for 2006 was held once again this year at the Royal Hotel, Ashby de Zouch, this was a joint meeting between the IoM³ and MES Southern Group, but sadly yet again, it was poorly attended.

Never the less, an excellent paper was given by Doug Jenkinson, Fellow of IoM³ and the Minerals Engineering Society.

The paper was entitled "Sixty Years of Mineral Recovery in Derbyshire" It centred on the authors involvement with the plant (now known as Cavendish Mill) since 1944, when he worked for Colliery Engineering Limited on the recovery of Barytes for use in the Barvoys Dense Medium plants built by the firm.



Photograph on the Left shows Douglas receiving the Hopley Shield Award from David Hedley President of the South Midlands Branch of IoM³ Accompanied by S G Committee Member Brian Everitt.



Douglas Presenting His Hopley Lecture 2006 Technical Paper.

The paper explained how the plant had evolved from a corrugated iron clad jig plant to the modern selective floatation plant, now operated by Glebe Mines Limited. Mention was made also of the very first hydraulic cyclone ever to operate in the UK which was tested and used on the plant in 1946.

On completion of a rather enthusiastic question time, a vote of thanks given by Brian Everitt which was followed by a light buffet.

The Hopley Lecture, as most members know, is an annual event, whereby the presenter is awarded the Hopley Shield and an Engraved Tankard, hence the comment give and

International Coal Preparation Congress - China

A comprehensive brochure is now available giving details of the XV International Coal Preparation Congress in Beijing from the 17th to the 20th October 2006. Registration forms, hotel details and booking procedures together with a list of all the papers to be presented are given in the brochure. Tours to mines, the Great Wall and other places of interest can be booked by contacting liujiasafety@hotmail.com. Should anyone require a brochure in the UK these can be obtained from Doug Jenkinson at

Outgoing Chairman Dave Baillie
Congratulates Incoming S G Chairman
Mike Gurr

MSc DMS FMES AMIQA AMIMechE

Following the recent Southern Group AGM which took place on the 11th May 2006. At the Willesley Golf Club, Ashby De La Zouch, our new chairman was congratulated at the 18th Hole.

If you are not familiar with the name Mike Gurr, then let's tell you a little about him.

Mike is a self employed Quality and Environmental Consultant with a successful record of aiding business improvement through the development and running of company-wide management systems in a variety of UK and USA organisations, including a long association with NASA bases at Cape Canaveral, Edwards and Langley.

He is a mechanical engineer by education, training and practice, with an extensive R&D background, is a Quality and Environmental Lead Auditor with postgraduate qualifications in Business Studies and Environmental Quality Management.

Following his graduation from Leicester's De Montford University, Mike worked in R&D shop machinery design before joining the NCB's



Mike being Congratulated by Dave at the 18th Hole at Willesley Golf Club

Mining Research Establishment, Bretby in 1975 as a Project Development Engineer, involved in underground transport projects.

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Minerals Engineering Society Website

www.mineralsengineering.org

For further information on the Minerals Engineering Society Website,
Contact

Douglas Jenkinson: douglas.jenkinson@btinternet.com



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With progressive moves in British Coal's Headquarters Technical Department, Mike moved in to Quality Assurance operations where he subsequently assisted many coal preparation plants in achieving QMS and EMS certification for their operations. He became an independent consultant in 1994, working in coal preparation, bulk handling ports, electrical, electronic, railway, food, financial and aerospace industries in the UK and USA.

Mike is currently enjoying being Quality Manager at two diverse manufacturing companies in Derbyshire, where he is responsible for quality, environmental and health and safety operations. He was elected to a Fellow of the MES in 1994, joined the MES Midlands Group Committee in 2002 and was elected to MES Council in 2003.

Mike is married to Lynda and they have two children. Mike is Vice President of the Ashby and Coalville Lions Club service organisation and is due to become it's President for a record third time. He spends his other spare time polishing and driving his old Ferrari and Jaguar cars and even more sadly is chairman of the local Leicester City Supporters Club branch.

He is looking forward to working with MES Southern Group Committee in continuing their fine tradition of encouraging contact between MES members and their interchanges with others engaged in all fields of minerals engineering.

Other SG Members elected to the 2006-07 Committee at the AGM are:

**D Baillie Steve Frankland
B Everitt D E Jenkinson
D Redmond P Riley
R Wilcox D W Brown**

Steve Frankland has agreed to continue as Sec/Treasurer with D Baillie as an - official 'assistant' to take Minutes at meetings as necessary.

Annual Joint Forum With MES SG, IoQ and IOM³

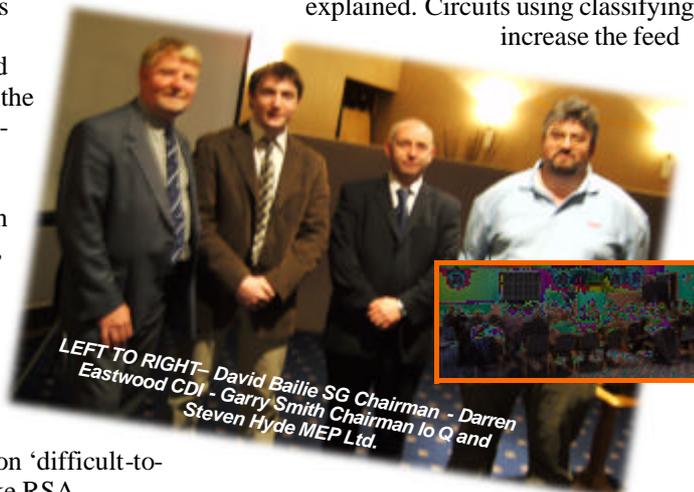
By David Baillie

This annual joint forum was held at The Forest Hill Golf Club on Monday 10th April 2006 and was attended by 33 members and guests. The subject was 'Washing of Fines' and involved presentations from two companies on different but complimentary ways of classifying and beneficiating fine sizes minerals.

The first presentation by **Darren Eastwood of CDI (Ireland) Ltd.** concentrated mainly on the washing of quarry dust and gave several examples of different applications of their technology since the company was formed in 1991. The equipment used included hydrocyclones, dewatering screens, high-rate thickener and plate pressure filters. The importance and benefits of providing a full water management circuit to minimize water requirements and cost of lagoons was stressed. Where the mineral was contaminated by high clay content, log washers were used initially to break up the clay. CDI emphasized that it was important that the companies provide an overall service package to supplement all the equipment they supply.

Stephen Hyde from MEP Ltd. then gave a detailed description of the design and application of the Hydrosizer, or teeter-bed separator (TBS), to sand washing, mineral classification and fine coal beneficiation. Both the history of the development of this upward current separator and the latest information on the application of the technology world-wide was explained. Circuits using classifying cyclones to de-slime and increase the feed concentration to the desired 50% solids content feed to the TBS and with product dewatering centrifuges were described. Although the TBS was slow to take off in Australia and South Africa, where spiral separators were traditionally popular, many recent plants were specifying the TBS due to its higher separating efficiency and closer product control especially on 'difficult-to-wash' coals in countries like RSA

(and eventually India?). China was also proving to be a good market despite the fear of possible patent infringement, as they wanted superior quality Western Products. The Hydrolog for use on lignite up to 40mm top-size was also mentioned. After a slow start to the questions it livened up considerably and had to be brought to a premature end as everyone was more than ready to devour the usual magnificent free hot buffet meal. The SG Chairman brought the official proceedings to an end by delivering a well supported vote of thanks to the two presenters. Our thanks go especially to David and Steven Hyde for representing the MES SG on this occasion.



LEFT TO RIGHT - David Baillie SG Chairman - Darren Eastwood CDI - Garry Smith Chairman Io Q and Steven Hyde MEP Ltd.

Rowsley Luncheon

Monday the 8th May 2006 brought together a number of Past Presidents and Councillors of the Society at the Peacock Hotel Rowsley, the birthplace of the MES. The Luncheon meeting, open to all past presidents, was set up to provide an informal atmosphere and the opportunity for an open and frank discussion on the way forward for the Society. The meeting was well attended as the photograph illustrates, Barry Smith



LEFT TO RIGHT: WJR Griffiths, B Everitt, C Scargill, Dr CM Thomas, D Baillie, DE Jenkinson, DRA Redmond, J Hillman, JK Sowler, R Wilcox, AW Howells & GS Jones
Photograph By DW Branford

President 1996-97 also attended but unfortunately was obliged to leave before the 'team photo' was taken. As would be expected from such a gathering, a wide ranging debate took place with some interesting suggestions as to how the Society should proceed into the future. It was not the intention of the meeting to generate any specific recommendations, but to gather ideas and perhaps a general consensus on the way forward for the Society. All agreed that the meeting was worthwhile and did generate some suggestions which Council will develop over the coming months.

M E S Southern Group Chairman's' Report - Session 2005/06

This has been my third year as Group Chairman and it is now time for a change-probably for the better I hope. During my time in office I have often been very frustrated and sometimes annoyed by the apathy within the Society and regrettably, I have been known to voice this disappointment both verbally and in writing (some of my feelings were actually edited out by more diplomatic members!).

It can be depressing and frustrating for those involved in running any organisation when feedback one is trying to serve is absent. I can understand to some degree the reduction in interest by some of the members but would like those who really do wish the Society to survive to become more active in their support. I wish our new Chairman well and I will continue to be involved as a committee member as long as necessary. To the membership I would say, please give him as much support as you can.

This past year we changed our technical programme away from several single meetings towards fewer joint meetings with IoM³ and IoQ plus a single half day seminar, in an attempt to get improved attendance.

For the record, the attendance at MES SG events this past twelve months was as follows:

23rd November 2005 Half day Minerals Industry Seminar-University of Nottingham

(41 total, 20 MES members including Two speakers)

2nd March 2006 Hopley Lecture-Joint with IoM³-The Royal Hotel Ashby.

(17 Total, 7 MES members including speaker)

10th April 2006 Joint IoQ, IoM³, MES Forum-Washing of Fines

(33 total, 7 MES Members including 1 speaker)

The half day seminar at University of Nottingham was particularly pleasing as it attracted a reasonably large number of delegates from a wide field of industry and academia. Hopefully the success was down to a combination of timing, subject matter and venue, but I'm sure the excellent free buffet lunch was also a major factor. It must be said that all the papers and presentations this past year have been of the highest standard and the presenters deserved much better support for the effort they put into their presentations

The Group Newsletter I believe has gone from strength to strength and has become our main link with the membership. The latest three issues were prepared and edited by Reg Wilcox, who has ably demonstrated his excellent journalistic abilities. My congratulations to Steve Frankland for his work in preparing and distributing previous issues and my grateful thanks to Reg for agreeing to take over this sometimes onerous work to enable Steve to concentrate his efforts on the more routine secretarial work associated with running the Group. We are also grateful to all those who actually write the reports included in the issues and would like to hear from the MES Members of any news which they consider worthy of including. Following the success of the previous functions in 2003 and 2004, the next Annual Mining and Minerals Industry Joint Dinner Dance is arranged for May 13th 2006 at the Royal Victoria Hotel, Sheffield. The time and venue having been chosen to encourage wider participation with more clement weather conditions, so we hope for a large attendance. It is one social event that has the potential of becoming a real sell-out and I would urge companies involved in the industry to consider participating.

Southern Group committee have been busy organizing the 2006 MES National Meeting and this has now been booked at the Parkwater Hotel, St Anne's for the 13th to 16th September, on a very similar format as the successful event in 2003. The theme of

Minerals and Mining Industry Dinner Dance

Report By Brian Everitt

The Southern Group of the MES joined the Midland Institute of Mining engineers and the South Midland Minerals and Mining Institute in organising the joint Dinner Dance which was held at the Royal Victoria Hotel Sheffield on the 13th May last.

The event was held in the splendour of the grand banquetting hall where 157 guests enjoyed an excellent dinner followed by the opportunity to dance the night away, renew old acquaintances and even follow up potential business opportunities.

There are very few events such as this held these days, within the minerals and mining



Gentlemen L to R.
Paul Vanags - National President MES
Bernie Ricketson - CEO of the IoM³
Gerry Spindler - Chief Executive of UK Coal
David Hedley -
President of the South Midlands Institute of Minerals and Mining
Kevin Sabin - President of The Midlands Institute of Mining.

industries and we would encourage our members and their associated companies to support the event in future years

The event was preceded by a one day seminar on 'Conveying' organised by the Midlands Institute of Mining, which attracted 13 trade stands and 172 delegates. It just goes to show that despite those who decry the efforts of

organisations such as ours, there is life, interest and business opportunities out there.

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The 48th National Meeting: 13th - 16th September 2006
 To be held this year at the
Parkwater Hotel - Fairhaven Road - St Anne's on Sea

The Theme of The Conference as Organised by The Southern Group will be
'Use of Minerals Processing Technology in Waste Re-cycling'
Technical Papers (Provisional as at 1st August 2006)



1. **The Need for Recycling** - Mike Watson, WRAP.
2. **Tyre Recycling** - Barry Stocker, Murfitts Industries.
3. **Environmentally Friendly Processing with Magnets** - Paul Fears, Eriez .
4. **Mineral Recovery from Lead Mining Waste** - D E Jenkinson.
5. **Cavendish Processing Operation** - Sue Thompson, Glebe Mines Ltd..
6. **Recovering Precious Metals from Secondary Sources** -Angela Murray & Neil Rowson, University of Birmingham.
7. **Recycling Research** - Prof Nick Miles, University of Nottingham.
8. **Pulping and Processing of Waste Paper** Linden Jackson, Abi Tibi.
9. **Process Involved in FGD:** EoN Power.
10. **Operational Experiences at Gayle Common Ash Disposal Site** - John Lumpton, British Energy.
11. **Glass Recycling and Sorting** - (To be confirmed)

It is proposed this year however to possibly reduce the number of papers to maybe 10, in doing so this will leave the Friday afternoon free for the AGM, Presidents Address and Council Meetings.
 Having learned the error of our ways in 2003, we will have Steve Smith, an excellent (and we really mean excellent) after dinner speaker for the Gala Dinner.

It promises to be an interesting and enjoyable event so - **DON'T MISS IT !!**
the above list of provisional technical papers has been arranged by the organizers,

Contact
 Doug Jenkinson to
 Book Your Place
 01283 215577

2006 - 07 Programme - Minerals Industry Seminar

Following the success of the half day seminar last year, it has been agreed by the Southern Group Committee that the seminar will be repeated again this year and will be held in the Staff Club at the University of Nottingham.

The venue has been arranged for the afternoon of the 22nd November 2006. Whereby the Four proposed papers will be preceded by a buffet lunch, to commence at 12 noon.

MEMBERSHIP PLEASE SUPPORT OUR EFFORTS - IT WILL BE VERY MUCH APPRECIATED **WILL**

Obituary

It is with great sadness that during the past twelve months the Society has experienced the loss of three of its loyal members, two of whom were Past Presidents. In August 2005 the death was reported of **Dr Bill Kelegan**, Past President and valued member of the Society. More recently the Society announced the passing of **David Penny**, another ex-South Midlands Past President. David possessed the most wide-ranging experience of any President in the History of The Minerals Engineering Society. He was a mechanical engineering graduate of Imperial College, London, having served an apprenticeship at Derby Locomotive Works. After graduation David did his national service as an engineering officer in the Royal Navy, during which he took part in the British hydrogen bomb tests in the Pacific. This was followed by David moving on to hold various positions with numerous companies. He joined the MES in 1978 and soon became involved in the Society's activities, firstly on the South Midlands Committee, becoming Chairman in 1987. then serving on the National Council with his election as National President in 1988. The sympathy of all members of The Society go out to Tricia and her family on their sudden loss.

The Society advises of the death on 3rd June 2006 of **Arthur Siddall** aged 82. "Little Arthur" as he was always known, spent most of his working life in the scientific side of coal preparation, starting from school in 1940 in the laboratory of Colliery Engineering Ltd., (CEL), Sheffield. He was meticulous in all his work and trained many who later achieved senior posts with the National Coal Board or coal preparation contractors. He was a valuable member of the British Standards and ISO Coal Preparation Committee which created an opportunity for him to travel to many parts of the world attending meetings. His final move was to join Birtley Engineering in Chesterfield where he remained until retirement. Arthur was a regular and sincere attendee at MES meetings both in North and South Midlands Sections in addition to National Meetings. In 2000 he was the well deserved recipient of the McQuillan award. Arthur's funeral took place at Old Tupton Methodist Chapel, Derbyshire and was well attended by Members of the MES and Birtley Engineering Ltd.