

1 Editorial • The Sydney Harbour Tunnel
 3 New Members • Healthy report stems from regenerated waste site • Company Members
 4 News in brief • SLAG Video and Compendium • Subscriptions



QUARTERLY

2001

www.asa-inc.org.au

ASA ASSOCIATION Connections

THE AUSTRALASIAN SLAG ASSOCIATION NEWSLETTER

Editorial comment

THE last decade, established the credentials of the association as point of reference for the Australian slag industry. This has enabled serious dialogue with the community particularly through Governmental and regulatory agencies to take place in a technical and educational environment. Through these efforts, slag, particularly from the processes of Iron and Steel production, have achieved proper recognition as resources. Their recognition and use as construction materials provides important economic and environmental benefits at both the corporate and community level.

Fittingly, the Association has recognised the efforts of its foundation Executive Officer Doug Prosser (retired June 2000) and Director and Technical Committee Chairman Martin Venour (retired October 1999) for their strong contribution to its development. They have both been awarded Honorary Life Memberships.

Entering 2001 and the new millennium, change continues, presenting new opportunities. With some 50 members and an active organisational and committee structure, the association is in a strong position to continue its

important work well into the future. A new member to the list is Hunter Mill Services, a division of Australian Metal Recovery. They have commenced operations as the slag handling and processing contractor for Smorgon Comsteel in Newcastle.

During this year, the publication iGuide to the use of slag in roads first published in 1993 is being reviewed. It will maintain a strong practical bias including information on slag roads and pavement designs that are now at or have exceeded their design lives.

Although the BHP steelworks furnaces have ceased operations, the future of slag construction materials in the Hunter region is assured through the efforts of Steelstone Services. Customers from the Illawarra, Sydney and Hunter regions of New South Wales have assured access to a range of slag products.

News of the formation of the Euroslag Association is encouraging, as the international network continues to expand. Development of the International network of producers, processors and users of slag products improves understanding and strengthens the case for increased use of slag products as material of choice, well into the future.

EDITORIAL

Connections is published by ASA
 The Australasian Slag Association
 Wollongong NSW 2500 Australia
 Ph: 02 4225 8466
 Fax: 02 4228 1777
 Email: info@asa-inc.org.au
 Web: www.asa-inc.org.au

Publisher

Development Manager
 Art Director
 Pre-Press/Print

ASA inc.

Craig Heidrich
 Martin Costanzo
 In-House Graphics

Contributors

ASMS, Doug Prosser, Steelstone Services, Port Kembla Copper, Sunstate Cement, David E. Jones, Australian Metal Recovery & Craig Heidrich.

Quarterly Publication

Circulation 2,000

Views expressed in Connections newsletter do not necessarily reflect the opinion of the Australasian Slag Association. All contributions are welcomed, though the publisher reserves the right to decline, to publish or edit for style, grammar, length and legal reasons.

Association recognition of great achievement

DURING the past 2 years, the association has undergone significant personnel changes, due in some measure to the restructuring undergone by some of the member companies. This has brought about the most significant "baton change" in the Association's 12 year history. In recognition of the contribution made by several of the foundation members to the Association and the Industry, Honorary Life Memberships have been awarded.

Martin Venour received his award in recognition of his outstanding contribution not only to the Association, but also to the iron and steel industry in Australia. Fittingly, new Committee Chairman, Wayne James, made the award at the Association's Technical Meeting on 8th November 2000.

Some 40 years ago Martin started his career as a cadet with BHP Port Kembla. First studying Chemistry then branching out to his true love of



L to R: Wayne James Chairman of the Technical Committee presents Martin Venour with his award; Doug Prosser welcomes Martin to Honorary Life Membership.

Metallurgy, after four years in the laboratories Martin transferred to the Blast Furnace Department where he remained until 1979. During this period Martin spent six months in Japan as an exchange engineer with Nippon Steel.

In 1979 he was seconded to BHP Newcastle for six months which then grew into a permanent

move where he has lived ever since with wife Jenny. In 1985 Martin was appointed By Products Manager to set up a department to handle all of the Newcastle steel complex's by-products including, of course, iron and steel slags. Martin maintained this position until retiring on 26th October 1999 following the closure of the Newcastle iron and steel plant. During those latter years Martin's responsibilities for by-products extended to the BHP Whyalla, Sydney and Brisbane mills.

When the Association was formed in 1990, Martin was the obvious selection as Chairman of the Technical Committee. This committee was considered to be one in which it would be difficult to sustain participation due to the traditional conservatism of some companies to discuss product problems and innovation. History has shown that over the ten years of Martin's stewardship, this committee progressively grew in strength and

continued page two

The extra products that Steelstone will bring to the area will ensure that slag is utilised in all applications, and the good word on slag is spread even further.

Steelstone Services – The future of slag in the Hunter Region

FOR a number of years Steelstone Services has been supplying a range of slag products into the Newcastle and Hunter regions. This has included markets within various State Government Departments, Local Government areas, as well as numerous other applications with many contractors. With the closure of BHP in September 1999, there has been an uncertainty about the future of slag in the region.

The main source of slag material in NSW is now in Port Kembla, with Australian Steel Mill Services (ASMS) being the slag-handling contractor for BHP. ASMS and Steelstone have reached an agreement for the long-term supply of a range of slag materials into the Newcastle region. Supplementing this is supply agreements to take slag from both Rooty Hill Mini Mill and Comsteel Newcastle. This will result in Steelstone continuing their existing market supply and as a result of this, slag will be still available in pavement applications over a large area of NSW, from south of Wollongong to the North of Newcastle.

Steelstone is currently conducting workshops with the RTA, local councils and specifiers to ensure



that the market place is aware that slag will be available in the greater Newcastle region for years to come. This could not be a more opportune time with the federal government allocating extra funding to road works in the area. To date workshops with RTA Newcastle and the local Institute of Public Works Engineers have been received well.

Special interest has been shown in new

products that have been developed by Steelstone, as well as existing products that ASMS will bring to the Newcastle region.

With the confirmation of Steelstone remaining in Newcastle, the future of slag products in the region is promising. The extra products that Steelstone will bring to the area will ensure that slag is utilised in all applications, and the good word on slag is spread even further.

from cover page

credibility to become arguably the leading sub-committee of the Association. Martin's enthusiasm and persistence plus his propensity to drop the occasional verbal hand grenade have exemplified his Chairman's role.

The Executive therefore felt Martin was a worthy recipient of the rare Honorary Life Membership award.

Last issue, we featured a photograph of Doug Prosser the Associations Foundation Executive Officer (to June 2000) being awarded an Honorary Life Membership.

Doug Prosser was the driving force of the Association for that critical first eleven years, ably supported by wife Marie. The Prosser home became the first headquarters for the fledgling association.

Doug's links with the slag industry and the Iron & Steel Industry run throughout his long and distinguished careers. With a career start in the drawing office at the Port Kembla Steelworks, he

moved out to a local engineering company then to consulting, only to later return to the steelworks site as manager of Specified Concrete (later part of the Boral Group). After this, Doug undertook a number of corporate roles for the BML group (now Boral), returning in the 1980s to Steelworks site at Port Kembla managing among his portfolio slag and quarry product sales.

In late 1998, a meeting of industry representatives was convened at Port Kembla to explore the formation of a slag association. From that memorable and sometimes quite vigorous meeting, came the resolution to proceed. Having retired from Boral around this time, Doug, with his organisational, networking and customer focus abilities was the clear choice to guide and at times goad the association into existence.

During the next 11 years, Doug provided a great deal of drive and energy, maintaining the administration, developing the membership, keeping

tabs on the various committees and groups as well as being the very credible public face of the organisation. During this time the association grew to 48 members with international links to the National Slag Association in USA and the Nippon Slag Association. The membership of Australasian Slag Association grew to become truly International particularly in South East Asia.

Doug is held in high esteem by the members of the Association not only for his efforts but also his great friendship and loyalty. At his retirement dinner last year, attended by Interstate as well as NSW members, Doug was caught by surprise when Chairman Peter Taylor awarded him the first Honorary Life Membership bestowed by the organisation.

True to form, both Doug and Martin continue to take an active interest in the ongoing development of the association and contribute time and effort to its committee work.



Looking for information on Slag?

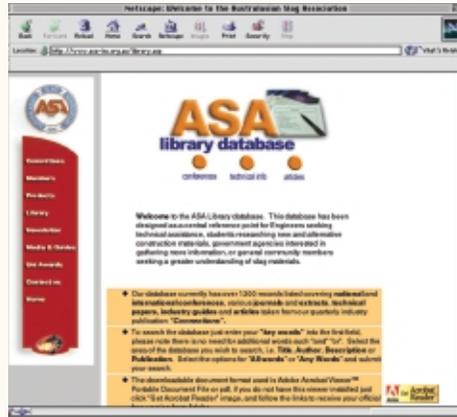
THE DATABASE has been designed as a central reference point for Engineers seeking technical assistance, students researching new and alternative construction materials, government agencies interested in gathering more information, or general community members seeking a greater understanding of slag materials.

Our database currently has over 1300 records listed covering national and international conferences, various journals and extracts, technical papers, industry guides and articles taken from our quarterly industry publication "Connections".

www.asa-inc.org.au/library

To search the database just enter your "key words" into the first field, please note there is no need for additional words such "and" "or". Select the area of the database you wish to search, i.e. Title, Author, Description or Publication. Select the options for "All words" or "Any Words" and submit your search.

Once you have reviewed the responses, select any of the papers listed below and click the "Download Document" link to the save file. If the document that you are seeking is not available online, the browser will open your preferred email



program and insert an automated request for the selected paper into the "Subject" field. Complete your message with any additional comments you may have and forward.

The downloadable document format used is Adobe Acrobat Viewer! Portable Document File or pdf, if you do not have this viewer installed just click "Get Acrobat Reader" image, and follow the links to receive your official free version from Adobe.

Don't just sit there why not check it out – you never know what you might find.

- What's New?
- What's Cool?
- Handbook
- Net Search
- Net Directory
- Software

New Members

Hunter Mill Services is an activity of Australian Metal Recovery Pty Ltd which was established in 1991 as a member of the Edw. C. Levy Group of Detroit Michigan USA.

Edw. C. Levy was established in 1918 as a specialist mill services contractor focusing on slag, metal recovery, and scrap handling. Over the years the company has expanded into natural aggregates, cement, asphalt, and road construction products.

The Company handles and commercially markets over 10,000,000 TPA of slag and recovers in excess of 1,500,000 TPA of metallics for recycling within the Steel Industry.

The Edw. C. Levy Group has a policy of contract based companies, so when they were successful with the Smorgon Comsteel contract in Newcastle, Hunter Mill Services was established. The contract on this site covers the supply of services including



scrap handling, slag handling, ferro alloy and flux handling and scrap processing.

Hunter Mill Services has a commercial agreement with Australian Steel Mill Services for the marketing of slag from the Smorgon, Comsteel site.

Australian Metal Recovery operates Australia's only detinning facility on the BHP Port Kembla site which includes the operation of Shredders, Scrap Balers, and an Automated Tin Anode Caster. AMR is also involved with the processing and stabilisation of wastes from the BHP Tinmill and the Detinning process.

If you would like more information please contact Mr Kerry Thompson, Newcastle Operations Manager on Phone 02 4967 0516 or Fax 02 4967 0517 or Mobile 0402 291 953 or Mr Ross Johnson, Managing Director on Phone 02 4276 2549 or Fax 02 4276 2503 or Mobile 0402 299 549.

Company Members

A primary role of our Association is to bring together Slag Producers, Processors, Customers and Suppliers to the Slag industry. Our activities cover Technical Developments, Plant Operations and Processes, Education and Promotion. If you would like more information on the Association and how you can become involved, just complete the information section at the end of this newsletter. Current membership is as listed below.

- Australian Cement Ltd
- Australian Steel Mill Services Pty
- BHP Flat Products
- Blue Circle Southern Cement Ltd
- Boral Concrete & Quarries
- Brambles Equipment
- Brambles Industrial Services (Whyalla)
- CSIRO DBC&E
- CSR Readymix Group
- University of Wollongong – Dr Denis Montgomery
- Gough & Gilmour
- Heckett Multiserv (UK)
- HBL (Heggies Bulkhaul Ltd)
- Hunter Mill Services
- Kress Corporation
- Mahaffey Associates
- Metserv Australasia Pty Ltd
- Milburn New Zealand Ltd
- University of Newcastle – Mr Brian Heaton
- Nichimen Australia Limited
- NS Komatsu
- Pioneer Construction Materials
- Port Kembla Copper P/L
- Premium Tyre Service P/L
- Queensland Cement Ltd
- Roads & Traffic Authority of NSW
- Slag Cement Sdn Bhd, Malaysia
- Smorgon Steel
- South Coast Equipment
- SsangYong Cement (S) Ltd, Singapore
- Steel Cement Ltd
- Steelstone Services (Aust)
- Sunstate Cement Pty Ltd
- Sulphide Corporation P/L
- The Slag Reduction Company (NZ) Ltd
- UBE Industries Ltd
- Wormald Fire Systems

Personal Members

- Anderson L
- Butler W B
- Dobson G
- Jones D E (Hon.)
- Maric M
- Marosszky M
- Prosser S D (Hon.)
- Reeves C M
- Venour M (Hon.)

Related Associations

- National Slag Association
- Nippon Slag Association



news **IN** BRIEF

National Slag Association (NSA) of the US recently forwarded the ASA copies of its new "Steel Slag" brochure produced by the Marketing Committee.

THIS excellent publication produced in full colour covers terminology, bituminous pavements, cement, road base and agricultural applications rounding out in the important environmental benefits arising from greater utilisation of this valuable resource. We have a number of copies available for those of you interested reading about what our friends in the US are doing with steel slag.



"Guide to the Use of Slag in Roads" is currently under review. The ASA Technical Committee has established a Sub Committee tasked with the responsibility to conduct a two dimensional revision of the 1993 Guide. Firstly to expand the stabilization technical information with guidance from Austab. Secondly update information on the performance of other slag based products like roadbase. In particular the

committee will be looking at slag roads and pavement designs that are now at or have exceeded their design lives. Lastly collate and gathered performance data on these projects which confirm slag superior "whole of life" benefits.

Euroslag (European Slag Association) has been formed, as reported by Dr. Jorgen Geiseler through the NSA newsletter "Slag Runner". Members of the governing council have appointed various committees for different working groups – Road Making Materials; Binding Agents, Cement, Concrete; Fertilizer; and Communications. In the past ASA have forwarded information and materials supporting the forming of this important group. The ASA looks forward to Euroslag's future success.



Slag – "the ultimate renewable mineral resource" – video has proved to be a favourite with many members. A considerable amount of

new additional footage has been incorporated demonstrating the beneficial properties of slag in various large-scale projects completed in recent years. The video (15mins duration) outlines slag's historical beginnings through to the various types of slag produced in a modern production process today.

Since our last issue we have had to produce another 100 copies to meet further demand. Copies are available to members at a cost of \$15.00 each, non-members \$20.00 plus postage and handling. Just complete and fax back the subscription/order form indicating your requirements.

Given the number of high quality guides the ASA has produced, and continues to produce ("Guide to the Use of Steel Furnace Slag in Asphalt and Thin Bituminous Surfacing") together with bulletins, newsletters and

general correspondence, the Education and Promotion Committee have developed a Technical Compendium for the purposes of storing these important documents and more.

The Compendiums are an invaluable reference tool for engineers, specifiers, consultants, government authorities, and various slag users. Copies are available to members at a cost of \$15.00 each, non members \$20.00 plus postage and handling. Please note that as amendments are made to the contents of the compendiums, registered holders will receive updates. Just complete and fax back the subscription/order form indicating your requirements.

Subscription Form: *Connections*

I received connections via a third party, please:

- Add me to your mailing list Send me only electronic copies via email Send me hard copies only

I WISH TO PURCHASE: ASA Video @ \$15.00* x ____ Qty ASA Compendium @ \$15.00* x ____ Qty

Name _____

Position _____

Organisation _____

Mailing Address _____ City _____ P/Code _____

Telephone _____ Facsimile _____

Email address _____

Business Category (please tick ✓)

- Producer Materials handler Industry supplier Government agency
 Processor Refining/value adding Specifier/Engineer Other _____

*Plus postage and handling • Inclusive of GST.

