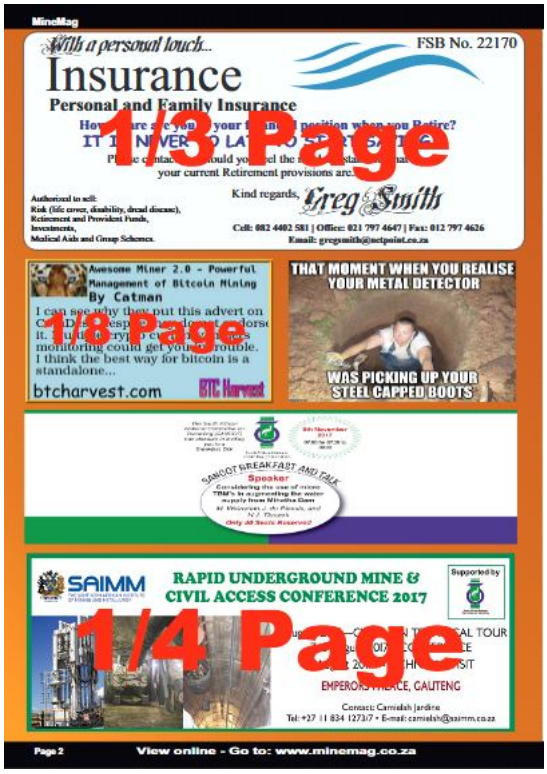

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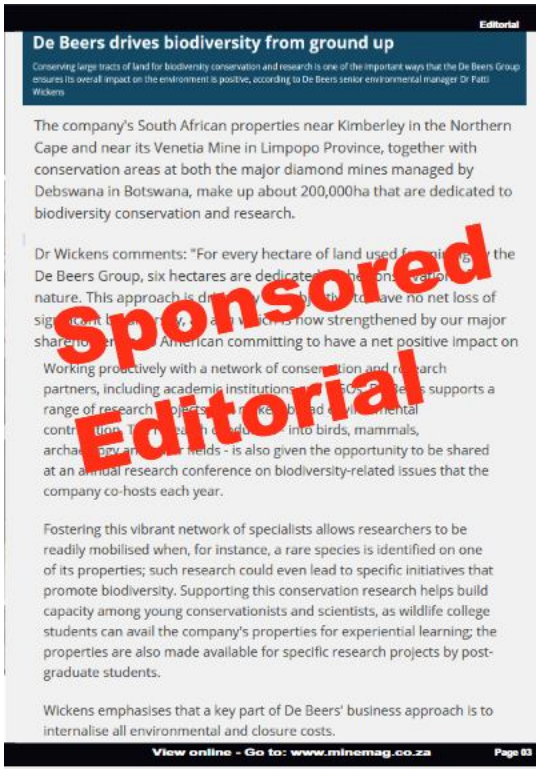

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Seven Ways Mining Companies Turn Data into a Competitive Advantage

Practical examples of goals that can be achieved by architecting a better flow of information

This guide focuses on streamlining the flow of information within Metals, Mining & Materials (MMM) companies. To transform your organization into a more agile, innovative, resilient and sustainable enterprise, effectively managing the flow of information is a necessary platform for success.

At a time when the speed of business is accelerating at unprecedented rates, cross-industry leader and chairman Bill Gates wrote Business @ the Speed of Thought: Using a Digital Nervous System. "The most meaningful way to differentiate your company from your competition ... is to do an outstanding job with information. How you gather, manage, and use information will determine whether you win or lose," he wrote. In the book, Gates develops the idea of a "digital nervous system" which must, like the body's nervous system, filter through a flood of information to identify what is truly critical.



Editorial
1/4 Page

Jobs Available



Feelin' pumped

Maurel Menefee
Times Record News

Clinton Briggs, right, helps unload an air pump from an Airwell Oil & Gas sea [illegible] at their temporary [illegible] in Electra. The company uses a proprietary air pump which they used first to pump water out of deep wells. They later modified it to get the most oil output from stripper wells. Family-owned since 1988, Airwell Oil & Gas is based out of Perth, Western Australia. The company is moving to Wichita Falls in the coming weeks.

Editorial
or advert

TIPPERS



Bolt it on

IN FEBRUARY THIS YEAR, HAMELEX WHITE LAUNCHED ITS MODULAR VERSABOLT TRUCK AND DOG TIPPER COMBINATION. SINCE ITS PREVIEW IN MAY 2015, MANY NEW FEATURES HAVE BEEN ADDED.

When MaxiTRANS' tipper brand Hamelex White unveiled its new VersaBOLT tipper at the Brisbane Truck Show in May last year, the modular concept drew a constant crowd of people trying to get a closer look at the [illegible] MaxiTRANS and Distributor [illegible] the heart of [illegible] changing" approach to traditional welding and replace it with a bolted assembly.

Named partially for its inherent versatility, the side, base, front wall, rear frame and mudguard pieces that make up any VersaBOLT tipper are manufactured separately in both steel and aluminium and [illegible] to the [illegible] For example, a high tensile steel floor can be specified for durability, paired with aluminium walls for a lower tare weight," suggests Andrew. "This increases flexibility, options and ensures customers can get the right trailer for the job – be it in quarry, construction, demolition or bulk. We believe the 'bolt' trailers will truly be [illegible] industry."

[illegible] methodology of trailer [illegible] possible for Hamelex White to improve its turnaround times when building a brand-new tipper, as Andrew says the manufacturer can simply take the appropriate pre-prepared components 'off the shelf' and bolt them together. "A custom combination can be put together, painted in fleet colours and be on the road earning our customers money in as little as three weeks," says Andrew. "As each section can easily be





Editorial



Fast Fact
First previewed at the Brisbane Truck Show in May 2015, Hamelex White's VersaBOLT was judged to be "Trailer of the Show".



bolted and unbolted, the modular concept also dramatically reduces turnaround times for any repairs should a section be damaged."

Between the debut and the launch of the VersaBOLT, Andrew says that Hamelex White continued to develop new features to further [illegible] offering, including a new [illegible] system called "SureLOCK" [illegible] MaxiTRANS, the patented [illegible] aims to improve the safety and reliability over the locking options that have previously been a standard in the industry.

The push-button operated locking lugs and mud and grain locks work in unison and retract fully inside the trailer posts, hiding the entire mechanism away from the trailer's carried materials that can often cause standard locks to jam from material build up after [illegible]. "Moreover, [illegible] SureLOCK also [illegible] locks [illegible] operator [illegible] in the way with other designs. By operating in unison, SureLOCK removes the risk of locks breaking or tailgates bending," says Andrew.

"SureLOCK also improves safety to the operator by removing the need to dislodge built-up material manually for the locks to operate, as can happen with standard locking lugs," he adds – pointing out that the ease of operation of VersaBOLT's many features were important points during its design.

In line with that, Andrew says that the positioning of the tailgate hinges below the top rail allows the tarps to be rolled all the way to the back, and the side-operated locking mechanism allows the tailgate to be operated from a safe position beside the trailer, rather than behind. The forward-mounted two way tailgate can alternate between side and top operation at the switch of a lever, with all components hidden inside the posts for protection.

"For improved longevity, Hamelex White has also incorporated a pressed wall design into the high tensile steel models to protect the walls against buckling [illegible] creasing," Andrew [illegible] that [illegible] and servicing [illegible] of rigid and [illegible] by Hamelex [illegible] dealer network, which [illegible] 14 dealer locations around Australia, including a brand new facility at Smeaton Grange in Sydney.

"As with all MaxiTRANS brands and products, the Hamelex White VersaBOLT is backed by one of the most extensive backup networks in the country," Andrew says. "Our dealer network is complemented by 19 MaxiPARTS retail stores, meaning both service and parts support are never far away."

Andrew says the smarts behind the modular tippers and new features deliver safety and operational benefits, while helping to position the range as 'technologically advanced'. "With exclusive, intelligent features like the SureLOCK locking system now included, we believe VersaBOLT is one of the most significant innovations for the tipper industry in a long time."



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Editorial

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SUPPLIER FOCUS: Thorne & Derrick

PROCURING FOR THE WORLD

Thorne & Derrick UK is a leading oil and gas procurement specialist. Operating from its base in Gateshead in England's northeast, it serves the global utilities, power, construction, rail, mining, offshore, oil, gas and petrochemical industries. Sales and Marketing manager, Chris Dodds explains further

How long has your business provided services / solutions for the oil & gas sector?

Thorne & Derrick UK (T&D), a global leader in oil and gas procurement, have been committed to this sector since 1985. T&D are supported by 100+ brands and market leading suppliers. We offer 50,000+ products from 1,000+ categories through our website thorneanderrick.com.

We can consolidate your supply chain and provide logistics to any international destination. We combine international sourcing and rapid delivery to provide a truly world class service to the oil and gas industry. T&D's diverse product ranges are in service enabling oil and gas production, processing, transportation, storage and distribution.



Where (if at all) are you located within the Middle East / GCC region – how many divisions do you have in the region? How important is this part of the world to your overall business?

We support our Middle East business via a dedicated team of UK based exports sales managers, technical engineers and expediting staff - we supply to traders, contractors (EPC's) and resans. The Middle East and GCC region is at the heart of our global business.

Are there any standout projects within the region on which your company has worked, preferably within the last 6-12 months?

Our stand out project would be The Pearl Gas to Liquids (GTL), a joint venture of Shell and Qatar Petroleum. The project is the world's largest GTL plant and one of the world's largest, most complex and challenging energy projects ever commissioned. T&D are major vendors of Hazardous Area Electrical Equipment & Cable to operators, EPC contractors and traders servicing the international oil and gas industry. Our core product groups are:

- Cables – Power, Control & Instrumentation
- Hazardous Area Lighting
- Cable Accessories – Cable Joints, Glands, Cleats & Terminations
- High Voltage Electrical Equipment 11kV 33kV
- Control & Distribution
- Mobile Devices & Communications
- Audible Signalling Devices & Visual Alarms
- Electrical Enclosures & Junction Boxes

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T&D are trusted by our manufacturers and our customers to supply the right product, at the right time and at the right price. We have built, maintained and continue to develop this reputation over a 30 year service history with the oil and gas sector. We provide a single-source capability for 100+ global brand leaders, the includes oil and gas market specialists such as 3M, Draper, ABB, Thermon, Appleton, ASCO, Nevans/Euromold, Panduit, Emerson, Pryaman, Stahl and Thomas & Betts.

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What is the highlight of the last 12 months for your company?

T&Ds distribution agreement with R Stahl has extended our traditional distribution role into providing entire "system solutions". T&D now provide tailor-made, project customised hazardous area systems – often from complex design challenges, delivering optimum efficiency and supported by international certification including IECEx and ATEX.

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Digging Deep

For more than a [illegible], Carle[illegible] Maine's [illegible] treasures. Now they're at the forefront of the state's stone industry.



Editorial or advert

From a distance, the yard at J.C. Stone in Jefferson resembles the remains of an ancient village. Boulders, slabs, mammoth quarried blocks, and smaller rocks stacked in cubes of varying heights rise out of the earth for a quarter mile down a dusty road off Route 17. Architects, designers, sculptors, and homeowners flock here for the sheer size of the selection and for inspiration. "It's fascinating to walk with people in the fall and see the moment when they find the perfect piece," [illegible] Kathleen Carle. "It's [illegible] that [illegible] ahead. With stone, it's [illegible] eye of the beholder."

Depending on the needs and vision of the client, a granite slab might become a front step, fireplace mantel, or—in the hands of a talented sculptor—an elaborate garden [illegible] for—or both. The vast supply of landscaping products, which can be arranged in infinite combinations, from neat geometric rows to intricate puzzle-like designs. "Our stone travels all over the place and we don't always know where it ends up or how it is used," says Jamie.

In 1990, when Jamie and a business partner began mining rock from a 90-acre lot in the town of Washington, he knew where every stone went: he drove it there himself. The partners focused on "natural stone" that can be peeled off from the ledge with an excavator, and they sold the pieces—slabs, wall stones, flagstones, and veneers—to local landscapers. "At the time, there wasn't a huge market for natural products. We sort of helped create it," says Jamie. The guys filled custom orders and built up a supply of stock products, eventually bringing in stone from other quarries to expand their lines. When Jamie and Kathleen met in 1998, he was working out of his truck, writing orders on pizza boxes, and transferring them to his books at night," recalls Kathleen. "I said, 'It looks like you could use some help.'"

Two years later, the couple bought out the other partner and incorporated as J.C. Stone. Kathleen handled the paperwork in the basement of their home until 2003, when they moved into an office on their current 10-acre lot. Today, the Carles have 46 employees and operate seven quarries throughout the state, making the company the region's largest supplier of Maine stone. The original Washington site yields a [illegible] bedstone called Heritage Valley, and the other quarries produce granite in colors ranging from classic salt-and-pepper gray to pinkish, lavender, and brown tones. At most of the locations, [illegible] beneath natural as well as [illegible] stone—go [illegible] deep below the [illegible] Back at [illegible] are "blocks" cut into pavers, tiles, slabs, and other products and treated with a variety of rough and polished finishes in a warehouse.

The company's diverse offerings give customers the ability to mix and match colors and grains—or design an entire home or landscape around a single stone. For clients such as Mark Jorgensen of Jorgensen Landscaping in Bath, the latter is a particular thrill. He recently created a sweeping outdoor scheme—including chiseled veneers on the home, natural stone pathways, and a terrace composed of textured tiles and polished columns—almost entirely out of Heritage Valley stone. The result is "cohesive but not boring because there's such variety in the finishes," says Jorgensen. "The natural surfaces appear rough and muted; then when you start slicing into the stone and polishing it, it comes alive with more intense colors and a marble-like grain."

The Carles have also created opportunities in the realm of restoration. Four of their quarries are historic sites

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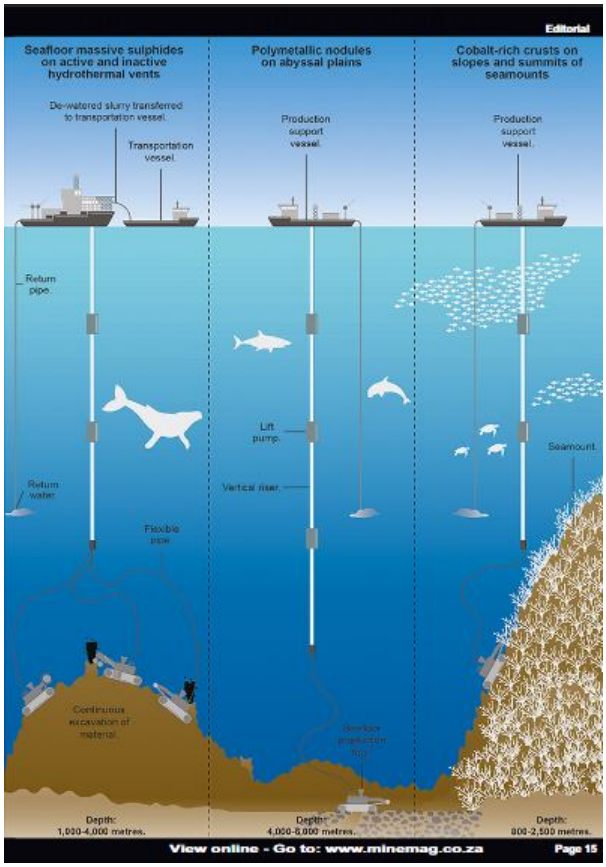
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Editorial



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Editorial



NAUTITECH'S MAJOR MILESTONE ACHIEVEMENTS AND SUCCESSES IN 2016

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ChefTalk

From fresh inland streams to deep blue ocean waters, fish and seafood is a favorite food. Baked, broiled, grilled, poached, smoked, fried, broaded or steamed.....
Appetizers, spreads, salads, or main course ..... Seafood can be healthy, easy to prepare and delicious. Here are some great recipes – enjoy!

Tangy Broiled Fish

Serves 6

2 pounds fish fillets
2 tablespoons vegetable oil
2/3 cup tomato juice
1 5/8-ounce envelope French dressing mix
3 tablespoons vinegar
Florida lime wedges

Place fish in a single layer in a shallow baking dish. Combine remaining ingredients and mix thoroughly. Pour sauce over fish and let stand for thirty minutes, turning once. Remove fish, reserving sauce for basting. Place fish on a well-oiled broiler pan. Broil about 4 inches from the source of heat for 4 to 5 minutes. Turn fish carefully and baste with sauce. Broil 4 to 5 minutes longer or until fish flakes easily and is no longer translucent in the center. Serve with lime wedges.

Fish 'n Kraut Sandwich

Serves 4

1 cup cooked, flaked fish
1 tablespoon horseradish mustard
½ cup drained sauerkraut
8 slices rye bread
½ cup chopped dill pickles
4 1-ounce slices Swiss cheese
¼ cup mayonnaise
2 tablespoons butter or margarine

Combine first 5 ingredients; mix well. Spread ¼ of mixture on each of 4 slices of bread; cover each with cheese slice and top with remaining bread. Melt butter in skillet. Place sandwiches in skillet and grill on both sides until golden brown.

Deep Fried Squid Rings

Serves 6

2 lb Squid
1/2 c Flour
1 teasp Salt
1/8 teasp Pepper
2 Eggs
1 c Milk
1 1/2 c Italian bread crumbs

Cut the cleaned squid body into 1/2" wide rings. Rinse well under cold running water. In deep fryer heat oil to 375. In plastic bag combine flour, salt & pepper. Add a few squid rings at a time, shake until well coated.

In a shallow bowl combine 2 eggs and 1 cup milk (beaton). Dip squid in liquid then in about 1-1/2 Cups Italian Bread Crumbs.
Fry a few at a time about 45 seconds or until golden brown. Drain and keep warm. Serve with cocktail sauce or tartar sauce.

Herbed Shrimp in Beer

Serves 6

2 lb Peeled raw shrimp
1 1/2 c Great western beer
2 Cl Garlic, minced
2 lb Chives, snipped
2 lb Parsley, snipped
1 1/2 ts Salt
1/2 ts Pepper
Shredded lettuce
2 Green onions, finely chopped

Combine all ingredients except lettuce and green onions in a bowl. Cover, Refrigerate 8 hours or overnight, stir occasionally.
Drain, reserve marinade.
2. Broil shrimp 4 inches from heat until cooked & tender (about 2 minutes on each side, less for small shrimp) Do not overcook or shrimp will become tough. Brush occasionally with marinade.
3. Serve shrimp on shredded lettuce; sprinkle with chopped green onion. (marinade may be heated and served for dipping, if desired)

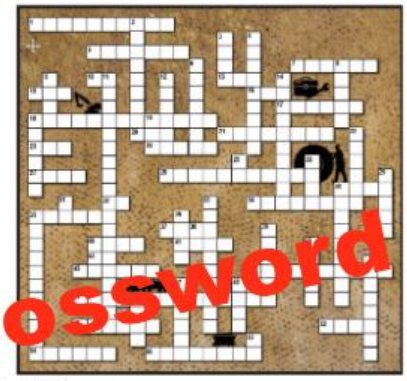
Grilled Fish in Foil

Serves 4

1 lb Fish Fillets, Fresh or Frozen
2 lb Margarine Or Butter
1/4 c Lemon Juice
1 lb Chopped Parsley
1 ts Dill Weed
1 ts Salt
1/4 ts Pepper
1 x Paprika
1 ea Med. Onion, Thinly Sliced

On 4 large buttered squares of heavy-duty aluminum foil, place equal amounts of fish.
In small saucepan, melt margarine; add lemon juice, parsley, dill weed, salt and pepper. Pour equal amounts over fish. Sprinkle with paprika; top with onion slices. Wrap foil securely around fish, leaving space for fish to expand.
Grill 5 to 7 minutes on each side or until fish flakes with fork. Refrigerate leftovers

Dig It!



Crossword

Mining Crossword — Dig It

Across
1. Volume/weight extracted in a given period of time
5. Remove minerals from ground
7. Natural warming system
10. First person sin
13. Environmental, health, and safety
15. Sn
16. Canadian stock exchange
17. Cu
18. Separating ore into mineral and gangue
20. Half as many as two
21. Loose soil
23. Living a long time
24. To bore a hole
27. Zn
28. Mining study for capital appropriation
30. Chemical formula CL3SH66GNS
32. Megalith
34. Transports ore or waste
35. Expression of discovery
37. Natural body of organic matter and minerals
40. NaCl
41. Pb
43. For example
45. Moves material into a processing plant
46. Terrain of known deposits
48. Make a hole in the ground
49. First phase of mining due diligence
51. Potassium carbonate
52. Re
54. Ni
56. Expectation for the future

Down
2. Collection of mining assets
3. To drill a hole
4. Place for blasting charge
6. Salaries, wages, bonuses, and deductions
8. Fossilized tree resin
9. Where mining takes place
11. Planning for repair and replacement of equipment
12. To form cavities in a surface
14. Exposing a site
18. Alloy of copper and tin
19. Conjunction that combines
22. Company primarily involved in exploration
25. Gigabyte
26. U.S. stock exchange
29. Computing with applications located on Internet
30. Type of mining asset
31. Conjunction that separates
33. Uncertainty over commodity pricing
36. Surveying ground
38. Au
39. Such as
39. Needed to power equipment
40. Receive
42. What miners hope to make
44. Al
46. Drilling device
47. Ag
48. Earth or soil
50. Not hard
53. Information technology



Cooking for miners, eating at mines

Most mines have a place where the miners eat. Let us celebrate the cooks at these places by telling of the many fine meals we have enjoyed in these mining canteens. In celebrating cooks at mining canteens, I also seek to describe a job in mining that most do not write about. If you like cooking, then maybe a job at a mine canteen is for you.

At the East Geduld Mine where I grew up, there was the Single Quarters. This is where the single men working on the mine lived. My cousin lived there. I was envious of his lifestyle; for I dreamed of living away from my parents, free to come and go as I liked; free to [illegible] at speed through the wind; free to [illegible] never sin you choose [illegible] parental control?

Editorial

On many Sunday, my father would pile us into the 1949 Mercury for the one-tenth-mile ride to the Single Quarters where we ate Sunday lunch. Most of the single men were somewhere else– riding their motor cycles and entertaining women. Feeding the mining families was a way to bring in some money and keep the cooks gainfully employed. And maybe give some fleeting pleasure to underpaid miners and thier families.

The meal was the same every Sunday. First soup: thin gruel served in thick ceramic plates that would kill if thrown with accuracy. Then some white fish of the cheapest kind with lashing of tartar sauce to color the taste. Next roast mutton; for what self-respecting miner does not eat mutton on Sunday? Finally, a desert: something sweet topped with yellow custard. Then a cup of a coffee-chicory mix in yet another thick ceramic thing. Pure heaven for a kid like me who was fed spaghetti and meat balls or sardines on toast most days.

As a student at university, Professor Jennings took us to a mine in the Free State. Their canteen was down for the day, but they made us sandwiches. Thick white bread that turns to mush in the mouth; thick layers of cheap cheese and processed ham; and cold from storage in the freezer. At least the professor had a bottle of brandy which we used to wash down the sandwiches. Great. Even though the brandy was warm and undiluted. I still drink too much brandy in memory of that mining meal.

Then I went to the Cannery at Greens Creek, Alaska. We ate like kings. We ate salmon and halibut, two fish I had not hitherto heard of. The Bull-Cook at the Cannery was Anita. We never learnt her surname. But how can you ever forget her flaming red hair and her erratic energy? While we went out drilling, she went out fishing in Hawk Inlet. She caught salmon and halibut which she cooked fresh for the evening meal. We had the finest food I have ever had—Anita still [illegible]

Editorial

Back in Guyana [illegible] Bobbie Mine. The place to eat is run by the daughter of an important person. The food is varied. One night it is chicken flavoured with local spices and surrounded by beans and rice. The next night it is fish of the type I have not encountered before. Beer is flowing. Conversation is jubilant at mining advance. The price is right, and the atmosphere is perfect as you emerge into the square dominated by the police station and a Roman Catholic church. And walk, safe, to your hotel, which is an old house along a narrow street. Then back for breakfast of scrambled eggs, bacon, coffee, and orange juice. But it tastes so different from the American breakfast of the same ingredients. For there is salsa and corn tortillas; food not found elsewhere.

My point is that cooking for miners is an important job. You will prepare food that we will remember forever. You will prepare food that makes miners' lives OK or not. You are part of the essential services that make foreign travel to distant mines memorable and inviting. Go for it, if you can



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Hazelwood Mine Rehabilitation

As part of Hazelwood's ongoing community engagement activities, the community is invited to comment and provide further feedback on proposed mine rehabilitation activities at a round-table discussion with our Mine Technical Services Manager, James Faithful.

We want the people who live and work in the Latrobe Valley, who operate business and industry, and who are passionate about the future of Morwell and the wider Latrobe Valley, to contribute to the discussions and join us in the conversation.

FOCUS GROUPS

Italian Australian Club, 499-501 Princes Drive, Morwell

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Thursday 19 April	2.30pm
Thursday 19 April	5.30pm

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