I'M THINKING, WHERE'S THE FIRE?
WHERE'S IT GOING? ARE THERE CARS
IN THE GARAGE, TOYS IN THE YARD?

Captian John Hunt, Pittsburgh Bureau of Fire, Truck 13

Full Page Back

WHEN YOU GO IN, WE GO IN WITH YOU.

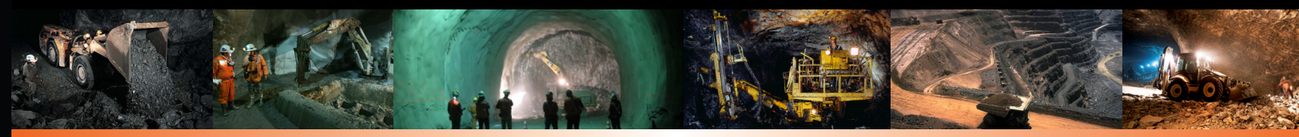
MSA
The Safety Company

Monthly Publication | Issue 1 | June 2018 | FREE

# Mine

A LEFIKA PUBLICATION

South Africa's Only Dedicated Mining Magazine for Miners



## Story: Hazelwood Mine Rehab

## Lots of Jobs

## Tips & Information

WIELICZKA
SALT MINE
1/8 Advert
DISCOVER THE TREASURE
WWW.WIELICZKA-SALTMINE.COM

**You will find:**
Interviews | Stories | Food ideas | Advertisements | Contacts | Employment

**visit us @ www.minemag.co.za**

A6001238015531A

1/8 Page cover

YOUNG PROFESSIONALS COUNCIL

Entrepreneurship in Mining Forum
A Focus on New Business in Mining
25–26 July 2017 · De Beers, Johannesburg




THE FUTURE OF MODERN MINING LIES IN THE CREATION OF STRONG PARTNERSHIPS; PARTNERSHIPS WITH COMMUNITIES, GOVERNMENTS, SHAREHOLDERS AND WITH CONTRACTORS AND SUPPLIERS ACROSS THE GLOBE.

IT MEANS HAVING A SHARED AMBITION. THE AMBITION FOR A SAFE AND HEALTHY WORKFORCE, THE AMBITION TO IMPLEMENT SUSTAINABLE PRACTICES AND THE AMBITION TO BE A PARTNER IN [illegible]NG PERFORMANCE, [illegible]EL.

THE ANGLO AMERICAN 2011 SUPPLIER AWARDS RECOGNISE THE EXCELLENCE OF OUR PA[illegible]ERS.

[illegible] YEA[illegible] [illegible]
IN[illegible]: [illegible] ELECMETAL
PARTNERSHIP: JOY
GLOBALSAFETY: NEW CONCEPT MINING
SUSTAINABILITY: FRASER ALEXANDER

MANY CONGRATULATIONS,
WE LOOK FORWARD TO A GREAT FUTURE WORKING TOGETHER.

FIND OUT MORE ABOUT THEIR SUCCESS AT GETTHEFULLSTORY.COM

**BEHIND EVERY GREAT MINE IS A GREAT PARTNER**

AngloAmerican

Real Mining. Real People. Real Difference.




# 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**

| | |
|---|---|
| Tuesday 17 April | 5.30pm |
| Thursday 19 April | 2.30pm |
| Thursday 19 April | 5.30pm |

Registrations are essential.
To register your attendance please contact hazelwood@au.engie.com or 03 5135 5000.

Full Page Inside Front
Full Page Inside Back

# Quick Index:


| | Page |
|---|---|
| **A** | |
| **Anchor Boat Shop**<br>Tel 021 511 2133/4<br>Fax: 021 511 2135<br>Email: hardman1@mweb.co.za<br>Boat Sales & service | 07 |
| **Atlantic Suzuki**<br>5 Ludel Avenue<br>Montague Gardens<br>Tel 021 555 1977<br>Boat Sales | 01 |
| **C** | |
| **Carrello Trailers**<br>2 Killarney Avenue, Killarney Gardens<br>Tel 021 556 2551<br>Fax: 021 556 0989<br>Email: info@carrello.co.za<br>Trailers | 10 |
| **Control Instruments**<br>Tel 011 627 2500<br>Website: www.ci-automotive.com<br>Accessories | 24 |
| **F** | |
| **Flexi Covers**<br>Tel 021 552 3724<br>Fax; 021 552 8591<br>Accessories | 20 |
| **I** | |
| **Insurance**<br>Cell: 082 440 2581<br>Tel 021 797 4647<br>Fax: 021 797 4626<br>Email: gregsmith@netpoint.co.za<br>Boat Sales | 02 |
| **K** | |
| **Kalyn Marine**<br>P.O Box 357, Paarden Eiland<br>Tel 021 552 5995<br>Fax: 021 552 7185<br>Boat Sales | 06 |
| **M** | |
| **Manex & Power Marine**<br>9 Paarden Eiland Rd, Paarden Eiland<br>Tel 021 511 7292<br>Fax: 021 510 1487<br>Email: manex@manex.co.za<br>Boat Sales | 14 |
| **N** | |
| **Novamarine**<br>Tel 021 506 4300<br>Fax: 021 510 3305<br>Website: www.novamarine.co.za<br>Safety Equipment | 4<br>5 |
| **Q** | |
| **Quick Silver**<br>(Sole Importer & Distrbutor)<br>JHB - Tel 011 878 2600<br>Cape town - Tel: 021 932 0568<br>Durban - Tel: 031 717 6400<br>Accessories | 08 |
| **S** | |
| **SP Marine**<br>Cell: 072 248 3495<br>Boat Sales & Repairs | 02 |
| **T** | |
| **The Jet Shop**<br>28 Silverston Rd, Killarney Gardens<br>Tell: 021 557 8756<br>Jet Ski Sales & Repairs | 12 |
| **W** | |
| **Water Toys**<br>Tel 011 708 2290<br>Email: sales@watertoys.co.za<br>Website: www.watertoys.co.za<br>Accessories | 18 |
| **Waterwise Education**<br>Emergency Call: 082 911<br>Tel: 021 436 4011 | 02 |
| **Waterworld**<br>Tel 021 511 0220<br>Fax: 021 511 0223<br>Website: www.waterworld.co.za<br>Boat Sales & Jet-Ski's | 08 |
| **Waterworld Workshop**<br>44 Auckland Str, Paarden Eiland<br>Tel 021 510 4774<br>Fax: 088 021 511 0784<br>Email: waterski@telkomsa.net<br>Boat Sales & Jet-Ski's | 09 |





Take a load off your mine

When it comes to choosing the right equipment for the harsh mining environment, only the best will do. Which is why smart mines choose Motorelli Scraper Winch Motors.

Built to the highest safety, reliability and durability standards, these SABS-approved motors meeting American 538/14 standards, and are designed to deliver efficiency at low temperatures. There's no other motor of its kind that can pass the 2-minute test.

So, if you're looking for a Winch motor with the potential to elevate your mine productivity, think **Motorelli**.

For more information on our product range contact us on
tel: (011) 892 1289
mark@motorelli.co.za
or visit us at
www.motorelli.co.za

Motorelli ELECTRIC MOTORS

1/3 Page







Mine MAGAZINE

**Editor:** Simon Lekau
**Operations:** .....
**Accounts:** .....
**Financial Manager:** .....
**Contributions:**

**Advertising - National Sales**
Telephone: .....
Email: iads@minemag.co.za

**Publishers:**
.....

**E-mail Addresses:**
Accounts: accounts@minemag.co.za
Design: design@minemag.co.za
Sales: sales@minemag.co.za

**Printers:** Lentswe Printerz

Full production is done in-house by the Mine Mag on Corel Draw software.

Mine Mag is published on a month by month basis.
Mine Mag print units relative to the number of advertisers. Mine Mag prints up to ten thousand copies for the Northern Cape and is distributed door-to-door, to retail stores and other outlets.

**Mine Mag under license:**
Reg: CK .....
Lehapa media (pty) ltd t/a lefika media
BEE Level.1



Mine Mag (the company) cannot be held responsible for the content, truthfulness, accuracy or origin of any advertisement or information published. All information and advertisements are subject to the companies standard terms and conditions. The company reserves the right to refuse, delete, omit or cancel any advertisement at any time without providing notice or reasons. The company shall not be liable for any omission and/or errors of any advertisement.

Mine Mag - reserves all rights and no part of this publication may be reproduced or adapted in whole or in part, transmitted in any form or by means whatsoever, without the written permission of the company.

It is not limited in its contents and deals exclusively with all marine products and services, including vessels used on the coast of RSA Information gathered from accredited guides and other marine sources.


## Features


| | |
|---|---|
| 2 | **Safety Equipment**<br>Your monthly safety equipment guide |
| 13 | **Mine Crossword**<br>Test your knowledge |
| 17 | **Mine Editorial**<br>A word about mining... |
| 19 | **Deep Minerals Editorial**<br>Minerals recently Found.... |
| 21 | **Chef Talk**<br>Monthly mouth-mining recipes |
| 22 | **Winterize your clothing**<br>What you need to for winter... |
| 23 | **Mines and more**<br>More on mining employment .... |
| 24 | **Quick Index**<br>Your quick guide |


## Sections


| | | | |
|---|---|---|---|
| 4 | Employment | 14 | Accessories |
| 6 | Equipment Sales | 15 | Trailers |
| 9 | Workshops | 12 | J..... |
| 19 | Insurance | 20 | Ad Smalls |










**EMERGENCY TELEPHONE NUMBERS**

| | |
|---|---|
| Police Flying Squad: | 10111 all areas |
| Ambulances: | 10177 all areas |
| Emergency Services: | 107 all areas |

**Poison Information**

| | |
|---|---|
| All areas | 0800 33 3444 |
| Red Cross Children's Hospital | (021) 658 5227 |
| Tygerberg Poison Information Centre | (021) 931 6129 |

**Mountain Rescue**

| | |
|---|---|
| Cape Town | (021) 948 9900 |
| All areas | 107 or any police station |

**Sea Rescue**

| | |
|---|---|
| Cape Town NSRI | (021) 449 2805 |
| Port Elizabeth NSRI | (041) 507 3911 |
| East London NSRI | (043) 700 2100/42 |

**Front Cover Picture sponsored by**

**May/June Issue:** .....
**March/April Issue:** .....


SAIMM THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY

RAPID UNDERGROUND MINE & CIVIL ACCESS CONFERENCE

Supported by



ECHNICAL TOU
17—CONFERENCE
—TECHNICAL VISIT

EMPERORS PALACE, GAUTENG

Contact: Camielah Jardine
Tel: +27 11 834 1273/7 • E-mail: camielah@saimm.co.za

1/4 Page

*With a personal touch...*

# Insurance

FSB No. 22170

**Personal and Family Insurance**

**How are you your financial position when you Retire?**

**IT IS NEVER TOO LATE TO START SAVING**

Please contact me should you feel the need to establish what your current Retirement provisions are.

Kind regards, *Greg Smith*

Authorized to sell:
Risk (life cover, disability, dread disease),
Retirement and Provident Funds,
Investments,
Medical Aids and Group Schemes.

**Cell: 082 4402 581 | Office: 021 797 4647 | Fax: 012 797 4626**
**Email: gregsmith@netpoint.co.za**

1/3 Page



**Awesome Miner 2.0 - Powerful Management of Bitcoin Mining**

**By Catman**

I can see why they put this advert on C[illegible] it. [illegible] monitoring could get you in trouble. I think the best way for bitcoin is a standalone...

btcharvest.com BTC Harvest

1/8 Page




*The South African National Committee on Tunnelling (SANCOT) has pleasure in inviting you to a Breakfast Talk*

South African National Committee on Tunnelling

**8th November 2017**
07:00 for 07:30 to 08:30

**SANCOT BREAKFAST AND TALK**

**Speaker**

**Considering the use of micro TBM's in augmenting the water supply from Mthatha Dam**

*M. Wainstein, J. du Plessis, and H.J. Tluczek*

***Only 40 Seats Reserved***

SAIMM
THE SOUTHERN AFRICAN INSTITUTE OF MINING AND METALLURGY

**RAPID UNDERGROUND MINE & CIVIL ACCESS CONFERENCE 2017**

Supported by

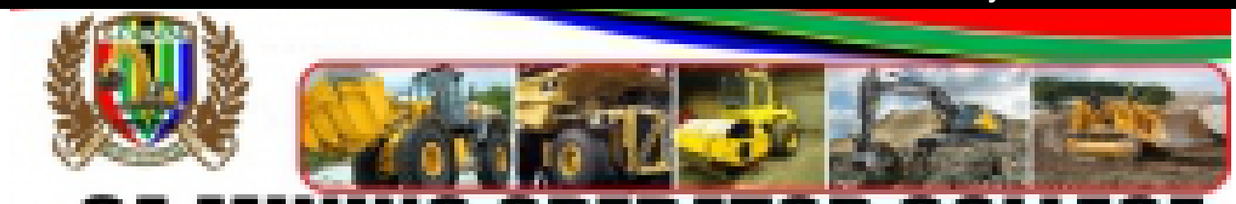


[illegible]CAL TOUR
[illegible]017 [illegible]CE
[illegible]t 20[illegible]SIT

EMPEROR'S PALACE, GAUTENG

Contact: Camielah Jardine
Tel: +27 11 834 1273/7 • E-mail: camielah@saimm.co.za

1/4 Page



**SA MINING OPERATOR COLLEGE**

**REG No. 2016/196534/07**

**IN ASSOCIATION WITH ROCK OF SPRINGS [illegible] COLLEGE**

Accredited With; Ceta, Teta & Seta Ref no: 15[illegible]

**Anyone with deposit can start training**

**MINING OPERATORS & CONSTRUCTION [illegible]ING COURSES**




Full Page

**FREE ACCOMMODATION AND JOB ASSISTANCE**

**LOCATED AT : 53 CORNER NELSON MANDELA AND KERK STREET**

**0145942068 / 0766155538**

Email: saminingcollege@gmail.com Website: www.saminingcollege.wix.com/samining

2018 MINING EXPO & CONFERENCE
CHAMBER OF MINES OF NAMIBIA

25 & 26 April 2018
Windhoek Show Grounds
Windhoek, Namibia
www.chamberofmines.org.na
PROUDLY SPONSORED BY THE CHAMBER OF MINES OF NAMIBIA

25 & 26
April 2018
Don't miss out! Di[illegible] now!








Full Page Sponsored Editorial

MINING EXPO & CONFERENCE
Contact Loide Armas for more information
Tel: + 264 (0)61 224 748
Cell: +264 (0)81 242 6606
info@wssnam.org





# De Beers drives biodiversity from ground up

Conserving large tracts of land for biodiversity conservation and research is one of the important ways that the De Beers Group ensures its overall impact on the environment is positive, according to De Beers senior environmental manager Dr Patti Wickens

The company's South African properties near Kimberley in the Northern Cape and near its Venetia Mine in Limpopo Province, together with conservation areas at both the major diamond mines managed by Debswana in Botswana, make up about 200,000ha that are dedicated to biodiversity conservation and research.

Dr Wickens comments: "For every hectare of land used for mining by the De Beers Group, six hectares are dedicated to conservation of nature. This approach is driven by our objective to have no net loss of significant biodiversity, an aim which is now strengthened by our major shareholder, Anglo American committing to have a net positive impact on biodiversity.

Working proactively with a network of conservation and research partners, including academic institutions and NGOs, De Beers supports a range of research projects that make a broad environmental contribution. The research conducted into birds, mammals, archaeology and other fields - is also given the opportunity to be shared at an annual research conference on biodiversity-related issues that the company co-hosts each year.

Fostering this vibrant network of specialists allows researchers to be readily mobilised when, for instance, a rare species is identified on one of its properties; such research could even lead to specific initiatives that promote biodiversity. Supporting this conservation research helps build capacity among young conservationists and scientists, as wildlife college students can avail the company's properties for experiential learning; the properties are also made available for specific research projects by post-graduate students.

Wickens emphasises that a key part of De Beers' business approach is to internalise all environmental and closure costs.

Wickens emphasises that a key part of De Beers' business approach is to internalise all environmental and closure costs.




"This gives us both a clear assessment of the various business risks and an ability to plan the necessary biodiversity actions where new projects are envisaged," she explains. "This means understanding, in detail, the levels of biodiversity risk in each of the areas in which we operate - hence our careful focus on this impact."

Editorial







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. Yes meals the finest food I have ever had—Anita

Back in Gu… la… t… E… ob… Mine. The place to eat is run by the daughter o… a local 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

Editorial



# 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 ride a motorbike at speed through the wind; free to spend your own money on whatever sin you choose. Why was I stuck under parental control?

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.

Editorial

Full Page

START MINING
BITCOINNOW!

www.bitcoinmining.co.za

CLICK FOR A LIVE STREAM
OF OUR MINING FARMS

Genesis Mining

WE ACCEPT
bitcoin VISA MasterCard

# 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 b[illegible] is a[illegible] unprece[illegible] rate, [illegible] Chairman Bill Gates wrote Business [illegible] Using a Digital Nervous System. "The most mea[illegible] 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

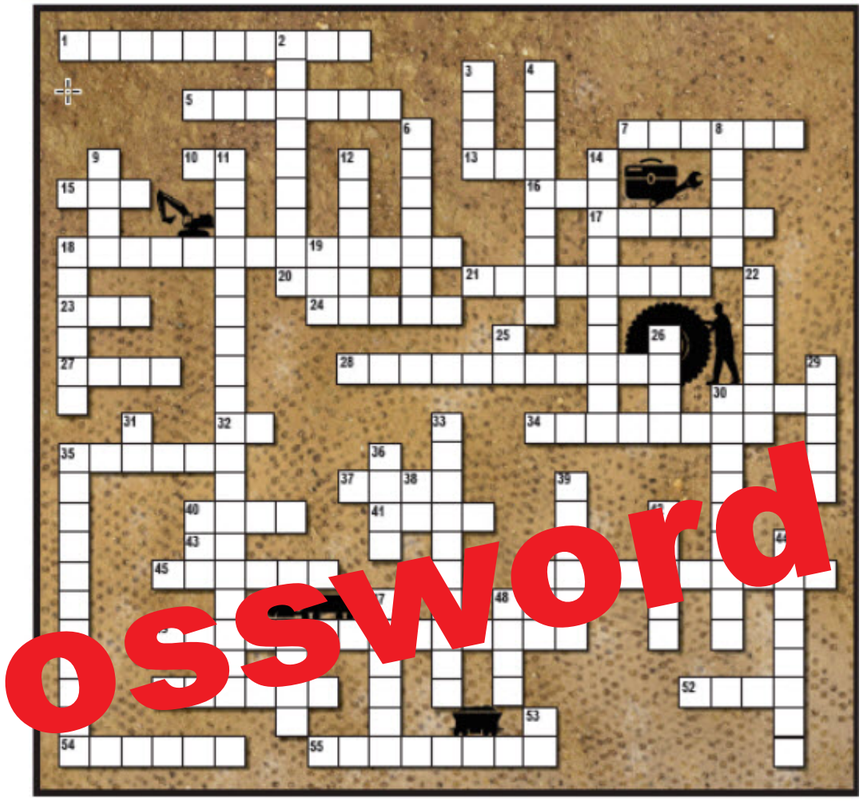



1/4 Page





# 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 warning system
10. First person am
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 C135H9609NS
32. Megabyte
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. Fe
54. Ni
55. 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
35. Surveying ground
36. Au
38. Such as
39. Needed to power equipment
40. Perceive
42. What miners hope to make
44. Al
46. Drilling device
47. Ag
48. Earth or soil
50. Not hard
53. Information technology




1/8 Page



# ChefTalk

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

## Fish 'n Kraut Sandwich

Serves 4

1 cup cooked, flaked fish
1 tablespoon horseradish mustard
½ cup drained sauerkraut
8 slices rye bread
¼ 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.

## Herbed Shrimp in Beer

Serves 6

2 lb Peeled raw shrimp
1 1/2 c Great western beer
2 Cl Garlic, minced
2 tb Chives, snipped
2 tb 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)

## 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.

## 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 (beaten).
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.

## Grilled Fish in Foil

Serves 4

1 lb Fish Fillets, Fresh or Frozen
2 tb Margarine Or Butter
1/4 c Lemon Juice
1 tb 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 lemnon 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





Jobs Available

Editorial or advert

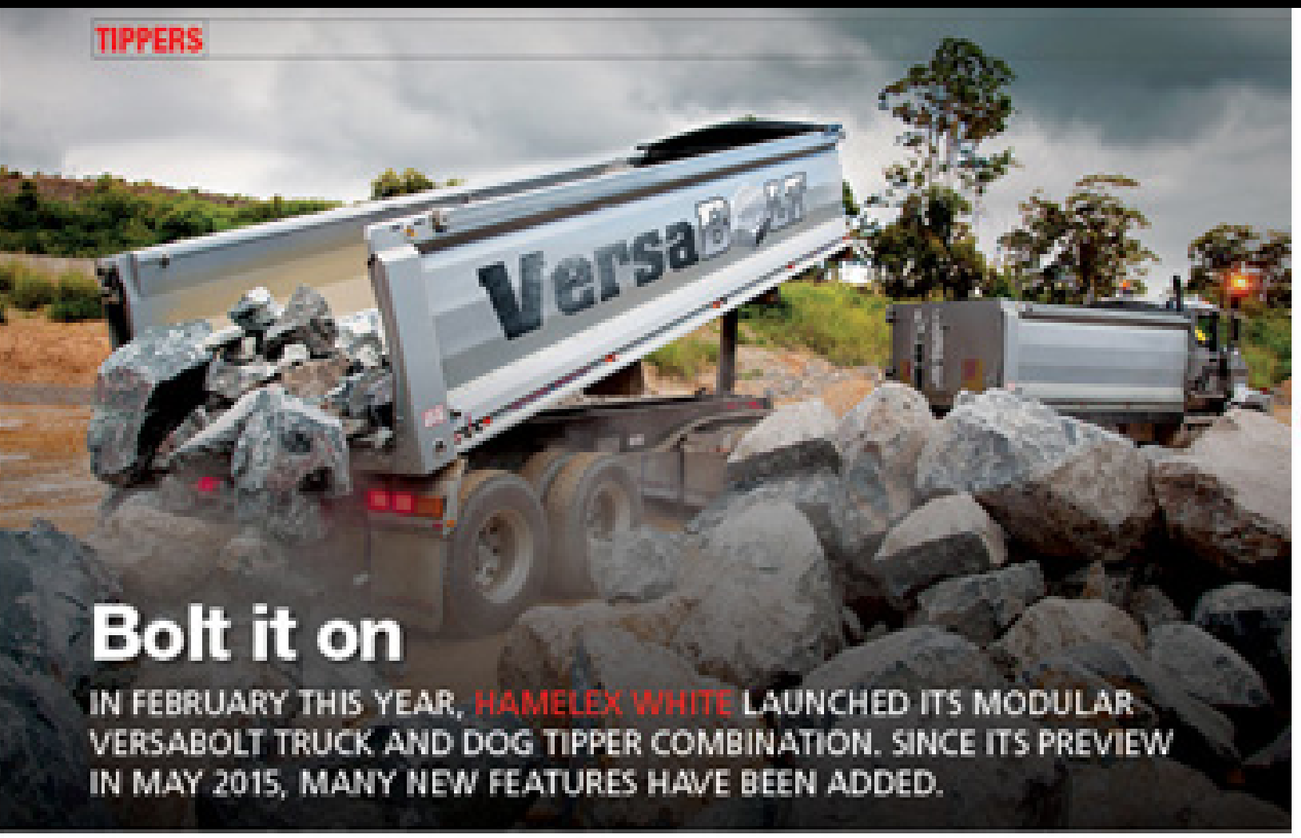


## Feelin' pumped

Maurel Merette/
Times Record News

Clinton Briggs, right, helps unload an air pump from an Airwell Oil & Gas sea container at their temporary location 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.

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 design. According to MaxiTRANS' [illegible] and distribution [illegible] the heart of [illegible] is game-changing" idea to remove 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 customer's specific [illegible] requirements. 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 [illegible]bolted' trailers will truly be [illegible] the industry."

The [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


Grain locks and locking lugs engaged


Grain locks and locking lugs disengaged and retracted inside the posts


The Nautitech team

impact on productivity. So we can assist the mine to achieve higher rates of production while increasing safety at the same time," he outlines.

With that in mind, Nautitech is also looking to spread its focus beyond the underground coal mining sector, to include products and services suited to hard rock applications and surface mining as well. South Africa is also just a starting point for the company's expansion plans – "which will take time to [illegible] we are confident that [illegible] will make significant progress."

In order to branch [illegible] the greater mining sector, the company spent a lot of time perfecting its processes and systems to ensure a high degree of confidence in product reliability. This means it has implemented, in a continuous improvement way, the following:

- ISO9001, NATA, IECEx, accreditations;
- Average DIFOT (delivered [illegible] of 99% (since July 201[illegible]
- Lean and six sigma methodologies implemented (JIT, Cycle [illegible] 5 Whys, and surveys);
- Implementation of a five year strategic plan utilising a balanced scorecard approach;
- Leadership training for the management team with a goal to go from [illegible] to great';
- OH&S [illegible] and
- In Jan[illegible] 201[illegible] service [illegible] – meaning it now measures its suppliers to the same metrics its customers measure Nautitech – delivery, quality and service.

Moving forward, the company will continue to design and develop new [illegible] and [illegible] for the [illegible] industry. For the reason [illegible] as well as [illegible] team intact, with no [illegible].

"Collaboration is another area we place emphasis on to deliver the best outcomes and results for the mining industry. We collaborate with leading firms and institutions such as CSIRO, Saminco and major universities. We have also collaborated with one of our competitors as we believe no one company can do this by itself anymore," Lester concludes.

**NAUTITECH'S MAJOR MILESTONE ACHIEVEMENTS AND SUCCESSES IN 2016**

- The development of human analytics using the thermal camera for images to a display for driver awareness and for merging with PDS systems;
- Design and development of two new displays capable of video;
- Trials of Spitfires in hard rock mines in Poland;
- Winning 90% of the underground coal [illegible] with Spitfires in every underground coal mine;
- [illegible] systems in 80% of [illegible] markets;
- [illegible] with Spitfire modems and thermal cameras;
- [illegible] elaborations and trials with customers including Glencore and Ensham; and
- Collaborative R&D projects with major universities such as UTS on proximity detection system.

Editorial or advert

ALCO-Safe (Pty) Ltd

Alcohol and Drug testing **specialists**

**Industry leaders for over 40 years, find out why over 5000 businesses trust our products and expert level support in policy development, legal advice and after sales service**

gh speed testers capable of testing high volumes of people at site entrance/exit points and portable instruments with digital readouts use at remote sites providing immediate printed evidence.

[illegible]analyser key management system. Integrated key cabinet to ensure drivers take keys and return them sober. Reports are drawn automatically to show records of key movements. Solutions [illegible] 10 to over 200 keys

BREATH TEST KEY CABINET

NEW

AlcoBlow® Rapid Test

Strongest and fastest breath alcohol tester on the market. AlcoBlow Rapid Test requires the smallest breath sample and ensures accurate results first time, every time. Results are obtained within seconds.

LION ALCOLMETER®600

ALCOLMETER® 600 has a touch screen display, for entering names, surnames and ID number of test subjects for printing and record keeping.

# SIMULTANEOUS SAFETY

## NEW HYDRAULIC TENSIONING SYSTEMS ARE CUTTING FATIGUE, AND INCREASING SAFETY

The process of bolt and stud tensioning for pipefitters is laborious and time consuming, and requires specialised experience to ensure the job is done right.

The efforts of an inexperienced worker who attempts to evenly tension flange studs will invariably result in bolt load scatter, and the need to start over.

However, hydraulic nut systems can eliminate the need for that special touch. By simultaneously tensioning all bolts or studs with a hydraulic nut system, even tensioning is assured.

Although there are a number of bolt tensioning systems available, many of them require that bolts or studs are a number of inches longer than would be ordinarily necessary.

In order to set up for routine maintenance with hydraulic nuts, a new set of longer bolts need to be supplied, which also presents additional expense.

Brisbane engineering manufacturer Technofast has gone a long way to solving these problems. Technofast has devised a hydraulic nut system which not only speeds up the process of bolt tensioning by removing human error variables, but avoids the need to replace longer bolts, and can withstand extreme temperature environments.

Technofast general manager Rob Bucknell said many hydraulic tensioning systems on the market can be slow to use, with time taken to fully engage the thread of the stud or bolt.

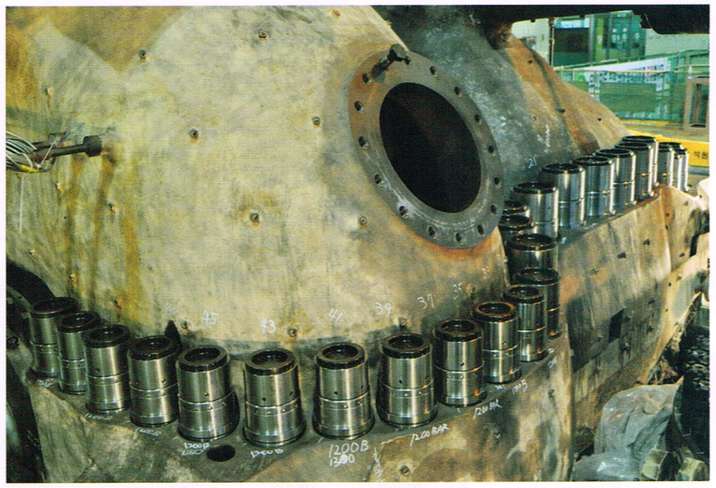
"Ours has a quick release mechanism on the nut, so one-and-a-half turns will have full engagement onto the nut," he said.

"The other companies have tensioning systems that are different from ours – with theirs the stud needs to be longer to allow the system to grab it."

With the Technofast CamNut system, the bolts don't need to be longer as the tensioner will grab into the CamNut instead of the bolt or stud.

With the investment of a set of EziTite hydraulic nuts on any major plant fitting, maintenance times can be slashed, reducing the kind of downtime that damages productivity.

Maintenance planners at the Northparkes copper gold mine have invested in using Technofast EziTite hydraulic nuts on their E48 crushing station.



Under ordinary circumstances the set-up was standard nuts which would be done up with a flogging spanner, taking three or four workers up to four hours to complete the task of removing and retightening bolts on the crusher feed chute.

Aside from OHS issues like using flogging spanners and physical fatigue, the maintenance task was also frustrated by incorrect or uneven bolt loading, which would result in bolts vibrating loose during operation.

Using EziTite hydraulic nuts with polywashers, task planning has been able to remove the risks of manual handling and worker fatigue by making the process of removal and replacement much easier, and by tightening all the bolts simultaneously by virtue of hydraulic connection in sequence the nuts no longer vibrate loose during operation.

Overall the maintenance time and manpower for this task has been reduced from a possible four hours for several workers, to only two hours for two workers to perform the same task.

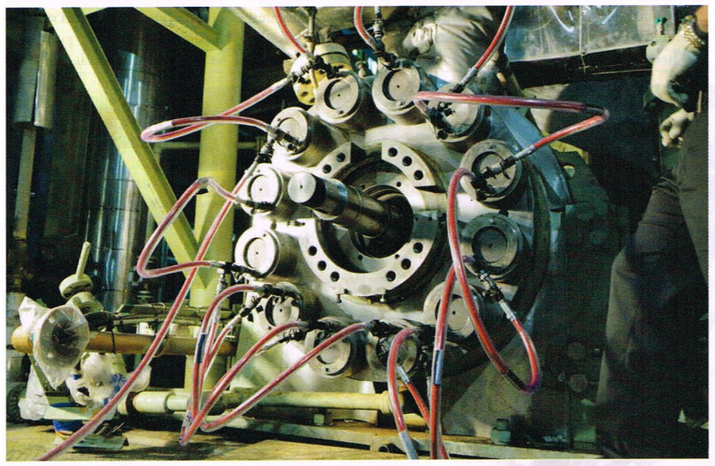
One of the most significant advantages of the Technofast systems is their ability to withstand extreme temperatures.

The EziTite hydraulic nuts are made from a specially developed, high temperature alloy steel which is unique to the Technofast range.

EziTite TR hydraulic nuts and CamNut systems are used on steam turbines and other extreme temperature applications, speeding up maintenance not only by saving on time taken by maintenance staff to perform necessary work, but by doing away with the need for bolt heating in the tensioning process.

The CamNut hydraulic nuts are able to operate in conditions ranging from -40 degrees Celsius up to 650 degrees, and the EziTite TR Hydraulic nuts operate up to 550 degrees and higher in some instances.

Effectiveness of the CamNut is best demonstrated in these extreme temperature environments, especially in relation to the closure of power generation turbines and steam turbine casings, such as those used in mining, energy and minerals processing industries.



SIMULTANEOUS TIGHTENING CUTS THE INSTALL TIME

THE PROBLEM OF UNEVEN LOADING HAS BEEN SOLVED

Instead of using the time consuming traditional process of heating and shrinking bolts for tensioning, simultaneous hydraulic tensioning dramatically shortens the time required.

Release and retensioning of the fastening devices can be carried out quickly and easily, especially so given that in the case of a breakdown, removal of the CamNuts can be carried out before the turbine or housing has fully cooled down from operating temperatures.

The Taeanb Power Stantion in South Korea has invested in the use of special M110x4.0 high temperature EziTite TR hydraulic nuts for their boiler feed pumps.

The traditional methods for maintenance of this system took eight hours and three or four personnel to complete the job of tensioning bolts until the correct elongation was reached.

This system had a number of problems, including the use of a large torque wrench weighing approximately 125 kilograms, which caused damage to studs, hex nuts and pump surfaces, as well as supplying irregular torque readings which were difficult to relate to tension.

The new system using EziTite nuts has reduced the maintenance time to an astonishing 30 minutes, and ensured that precise bolt loading was achieved through simultaneous tensioning, which made the client decide to upgrade the fastening system on a further seven boiler feed pumps.





View online - Go to: www.minemag.co.za



**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 tipping. "Many tipper [illegible] will [illegible] locks [illegible] 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] pressing," Andrew [illegible] – adding that [illegible] and servicing [illegible] the [illegible] of rigid and [illegible] supported 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."

Contact
Hamelex White
[illegible]
Derrimut VIC 3030
Ph: 03 8360 1111
Web: www.hamelexwhite.com.au

Editorial

View online - Go to: www.minemag.co.za

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 thorneandderrick.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 majors. 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

**What is the competitive advantage your business has over others providing similar services / solutions to the oil & gas industry?**

From our UK base we maintain levels of efficiency and customer communication. We have daily group-call sessions via Skype for discussing specifications, commercial negotiations, answering financial and expediting queries.

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, this includes oil and gas market specialists such as 3M, Drager, ABB, Thermon, Appleton, ASCO, Nexans Euromold, Panduit, Emerson, Prysmian, Stahl and Thomas & Betts.

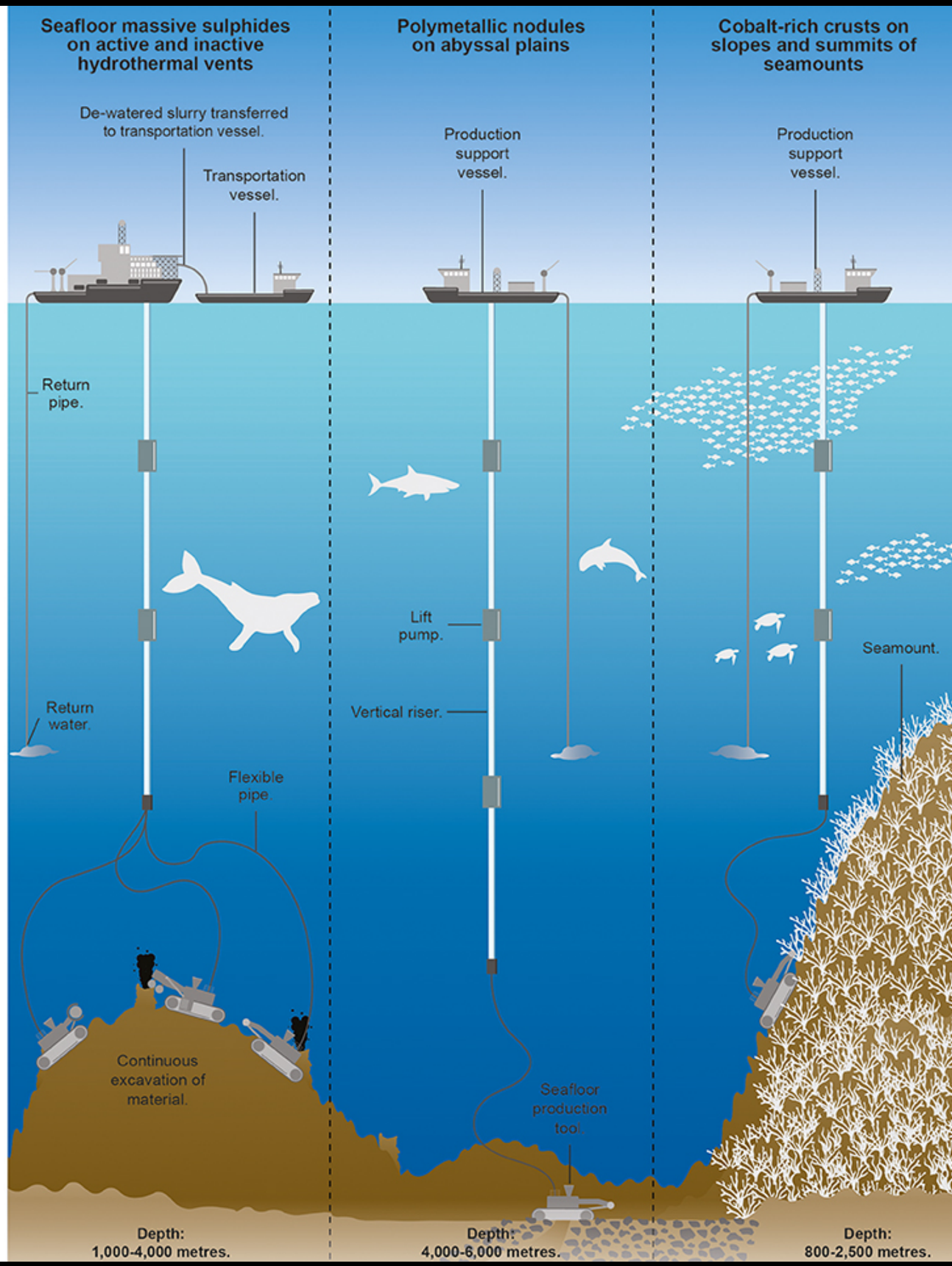
We are experienced in all export documentation, certification requirements and logistics direct to the MENA oil and gas industry.

**What has been 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.







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 thorneandderrick.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 a[illegible]e you [illegible]cat[illegible]vit[illegible] the Middle Ea[illegible] region? How many divisions [illegible] you have i[illegible] region? How in[illegible] 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 majors. 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

[illegible]ndo[illegible]f Hazar[illegible]a E[illegible]cal [illegible] C[illegible] to [illegible]ato[illegible] EPC [illegible]ntra[illegible] and [illegible]ders [illegible]vic[illegible]e [illegible]rma[illegible]il a[illegible]ndustry. Our [illegible] 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

**What is the competitive advantage your business has over others providing similar services / solutions to the oil & gas industry?**

From our UK base we maintain levels of efficiency and customer communication. We have daily group-call sessions via Skype for discussing specifications, commercial negotiations, answering financial and expediting queries.

T&D are trusted by our manufacturers and our customers to supply the right p[illegible]ct, [illegible]e r[illegible]time and at the ri[illegible]ce. 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, this includes oil and gas market specialists such as 3M, Drager, ABB, Thermon, Appleton, ASCO, Nexans Euromold, Panduit, Emerson, Prysmian, Stahl and Thomas & Betts.

We are experienced in all export documentation, certification requirements and logistics direct to the MENA oil and gas industry.

**What has been 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.

Editorial or advert





C&D WORLD

The C&D Recycling Industry has a Steadfast Supporter in C&D World

The Best Editorial and Audited Circulation Combine to Make *C&D World* the Industry Leader in C&D Recycling and Demolition Industries



th Staff Directly Engaged in Washington, D.C. on Behalf of the Industry, *C&D World* is the Magazine that Works for You

*C&D World* brings the best news and editorial from around the industry into one, important publication. As the official publication of the CNRA, the editorial staff of *C&D World* is also directly engaged in working to support C&D operators.

*C&D World* has built a deservedly loyal subscriber base with decision-makers in the industry. Between highly affordable advertising prices and the magazine's extensive reach, *C&D World* is by far the best opportunity for manufacturers and professional service providers looking to extend their message throughout the entire market.

# Digging Deep

**For more than a decade, Jamie and Kathleen Carle have been mining Maine's geological treasures. Now they're at the forefront of the state's stone industry.**



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 lot and see the moment when they find the perfect piece or type of material," says Kathleen Carle, who owns the business with her husband, Jamie. "I think, 'Oh, I like that stones and rocks drag it's head. With stone, it's all in the 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, serpentine fountain. A weathered boulder may serve as a focal point in a garden, while massive blocks may anchor a retaining wall or form a boulder bathtub. The yard also houses the vast supply of hardscaping products, which can be arrayed 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 1995, 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. Their original Washington site yields a distinctive gray ledgestone 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, workers unearth natural as well as "architectural" stone—giant blocks dug from deep below the surface with heavy machinery. Back at the stone yard, the blocks are "fabricated," or cut into pavers, tiles, steps, 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



Editorial or advert

Editorial or advert