

Rescue equipment The power of innovation New Holmatro carrying handles with double light capacity. Standard on 4000-series cutters, spreaders and combi tools. · 4 LED lights instead of higher light intensity longer operation time existing tools can be upgraded holmatro



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Better still email us because we monitor these regardless of where we are:

rescuemagazine@btinternet.com rescuemagazine@aol.com

NATIONAL RESCUE CHALLENGE

ondon Fire Brigade is preparing to welcome fire and rescue services from across the UK nto this year's UK Rescue Challenge London 2011, to be hosted on 23 and 24 September at London's Excel. This event will see firefighters from over 30 fire brigades covering England, Ireland, Scotland and Wales carrying out a series of high intensity rescues. Demonstrating their expert skills and state of the art equipment, the teams will have their extrication, rope, USAR and trauma capabilities tested to the limit.

CHALLENGES

Across the country, fire crews now attend around 180 different rescues a day. The UK Rescue Challenge London 2011, hosted by London Fire Brigade on behalf of UK Rescue Organisation (UKRO), aims to advance the way firefighters carry our rescues at real incidents and highlight how the job of a firefighter is now about far more than just putting out fires.

With complex rescues in extrication, trauma, rope and USAR, fire crews will be putting their rescue skills to the test, from cuttingtrapped casualties out of crashed cars and providing emergency medical care to rescuing people from cranes and collapsed buildings. Over 60 teams from fire and rescue services across the UK have already signed up to participate in the national challenge. **London Fire Brigade Assistant Commissioner** Steve Hamm, in charge of firefighter training, said: "Fire crews across the country are attending numerous rescues every day. Putting our firefighters' skills to the test against other brigades will help make sure that when we are called in to action, we're as ready as we can be. "By participating in this event, our firefighters get a chance to hone their skills, test new equipment and try new ways of rescuing people. Different brigades get to learn from each other and this helps improve how we rescue casualties at real incidents."

COMMUNITY SAFETY VILLAGE

In addition to the skills challenges, London Fire Brigade will be running a community safety village, giving the public an opportunity to learn more about the services, initiatives and programmes that the Brigade has in place to prevent fires from happening in the first place. Visitors will be able to learn how to detect a fire risk and what do to in the event of a fire. There will also be a firefighter assessment test to experience what it takes to do the job.

EXHIBITION

A large trade exhibition covering over 1600 metres will be running alongside the rescue challenge lenges and the community safety village. Organisations from across the emergency and res cue sectors will be displaying their services and state of the art equipment; key fire industry representatives like Holmatro and WeberRescueUK will also be exhibiting at the two day event.

RESCUE CONFERENCE

Taking place on Friday 23 September, the conference 'Preparing for tomorrow's challenges' will focus on five disciplines: trauma, line rescue, extrication, water rescue and Urban Search and Rescue (USAR) and will address the ways in which rescue agencies work together in partnership during major incidents or natural disasters. Speakers from the British Association of Immediate Care, the Royal Marines, the Royal National Lifeboat Institution, the Emergency Response and Rescue Texas Engineering Extension Service, HART and Outreach Rescue will be sharing their experience in identifying the challenges that face rescue work in the 21st century.



Chief Fire Officer from Hertfordshire Fire and Rescue Service Roy Wilsher will also be outlining the lessons learnt from Japan's recent natural disaster and the rescue efforts by the UK's crews.

www.londonfire.gov.uk/UKRescueChallenge2011



Who's Who at TRm?

		ADE COOTE		Color Section	
		ADE SCOTT (pic by 3yr old devil-child) EDITOR - UK - collects coffee vouchers 15yrs Head of Technical Rescue Unit (TRU) (ret) Rescue/Defence conslt. past NASAR presenter			REED THORNE ROPE RESCUE EDITOR - USA Rope Guru, Sedona SAR, ex-Fire/Technical Rescue Team, Stonemason & NASAR presenter
		JIM SEGERSTROM US Editor - USA (died Feb 2007) Water Guru, CoFounder Rescue3 International, Flight paramedic, Tuolumne County SAR			LEE LANG US EDITOR - SAR Ex-firefighter & EMT, LCSAR team member, NPS Ranger & NASAR Board Member
*		NEIL NOBLE AUSTRALIAN EDITOR - Trauma, USAR ex-South African AEMS Paramedic, Queensland Paramedic	*		GREG (CHURCH) CHURCHMAN CANADIAN EDITOR - USAR/ Rope Fire Officer, Pilot, Rope Rescue and extrication Instructor
		DR STEWART BOYD MEDICAL EDITOR -RSA Top Medical Dog - KZN, Trauma Doc, Flight Medic, War-zone junkie		E.	GARY CROSS TRm Senior Chimp - UK Firefighter, HMCoastguard, ex-TRU, Extrication Team Medic, Marine Incident Response Group
* *		ROB KEATING NEW ZEALAND EDITOR - Heli/ Trauma ex-South Africa AEMS Paramedic, Heli-rescue, rescue swimmer		RES	RICH HACKWELL Consultant - SAR/Coastguard - UK HM Coastguard-Head of Technical Rescue, Lifeguard, ex-TRU,(ex Tree Surgeon)
	NO.	BEN WALLER Consultant -Water Rescue - USA Water Rescue expert. Battalion Chief, Training Chief, Paramedic, US&R tech & HazMat tech.			JEZ HUNTER SUB-EDITOR - Rope/water - UK ex-Royal Marines, Water Rescue, USAR & , Rope instructor, now a trainee Doc
		Offici, Faramodio, Coart toom a mazimat toom			Nope instructor, now a trainee boc
		MARK PHILLIPS Consultant - DiveRescue - USA Beaumont TX Fire Dept, Publishes PS Diver.com			STEVE DALY TRAUMA EDITOR - RSA South Africa Paramedic, ex AEMS, part time Crocodile Farm owner
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		MARK PHILLIPS Consultant - DiveRescue - USA Beaumont TX Fire Dept, Publishes PS Diver.com BRIAN ROBINSON Consultant - Con-Space Rescue - UK National Confined Space Rescue Instructor	*		STEVE DALY TRAUMA EDITOR - RSA South Africa Paramedic, ex AEMS, part time Crocodile Farm owner MARTIN BOYLE ANTARCTICA Correspondent Emergency Services Coordinator
		MARK PHILLIPS Consultant - DiveRescue - USA Beaumont TX Fire Dept, Publishes PS Diver.com BRIAN ROBINSON Consultant - Con-Space Rescue - UK National Confined Space Rescue Instructor ex-Mines Rescue, ex-TRU CHRIS WALKER Consultant - Watercraft - UK National RNLI Instructor (HQ), Regional SAR	*		STEVE DALY TRAUMA EDITOR - RSA South Africa Paramedic, ex AEMS, part time Crocodile Farm owner MARTIN BOYLE ANTARCTICA Correspondent Emergency Services Coordinator Australian Antarctic Division MICHIEL WOLTERING Consultant - Police - Holland Instructor at Dutch National Police Academy for
		MARK PHILLIPS Consultant - DiveRescue - USA Beaumont TX Fire Dept, Publishes PS Diver.com BRIAN ROBINSON Consultant - Con-Space Rescue - UK National Confined Space Rescue Instructor ex-Mines Rescue, ex-TRU CHRIS WALKER Consultant - Watercraft - UK National RNLI Instructor (HQ),Regional SAR Team Member, Ex-TRU. RICH (DINGER) BELL Consultant - UK - Trauma, Hazmat, Dir.Training - Hazardous Area Response Team,	*		STEVE DALY TRAUMA EDITOR - RSA South Africa Paramedic, ex AEMS, part time Crocodile Farm owner MARTIN BOYLE ANTARCTICA Correspondent Emergency Services Coordinator Australian Antarctic Division MICHIEL WOLTERING Consultant - Police - Holland Instructor at Dutch National Police Academy for access in tactical, USAR, hostage rescue etc DOUG KEMP Consultant - Rope, Water/ Cave - UK IRIA Rope & water rescue instructor, IRATA 3,

Who's Who at TRm?





KELLY MATTHEWS

Sales & Admin Director- UK

Law Costs Draughtsman, The real Boss of TRm



LEE LANG

Webmaster

On top of everything else he gets up to Lee is currently (re)training to be an NPS Ranger





Reprographics

The artistic one that has to battle my poorly produced graphics files.



TIM GOOD

TRm US Admin Office

Owns and runs an art licensing company but allows us to abuse his office staff & facilities.

REED THORNE

So disillusioned is he with the quality of political leadership in the US that our favourite man-mountain and



viking descendent Reed Thorne is considering running for Governor of Arizona. We urge all those that are elligible to vote to get behind Reed in this endeavour and if you are non-elligible due to criminal tendencies that have been previously addressed by the justice system perhaps you could use your skills to persuade others to vote. TRm wishes Reed every success but if this should turn out to simply be a rumour that we started may we be the first to recant our testimony.

MARK PHILLIPS

Quickly skirting around the fact that the last Emag listed Mark as Mike (actually I prefer 'Mike' - it rolls off the tongue and doesn't bring to mind Princess Ann's first husband) we are pleased to introduce Mark Phillips as our Dive guru. Mark will be well known to the US Public Service community as the editor of PSDiver monthly (see ad below) a free Dive Newsletter that we will unashamedly be stealing bits and pieces from when Mark isn't looking. Now all we have to do is make sure that our emails get through to him because for the past few weeks (uncannily as we approached deadline) every one of our emails to him from all three of our servers got bounced as 'refused by the recipient' - perhaps Mark didn't take being called Mike as well as I thought.

JEZ HUNTER

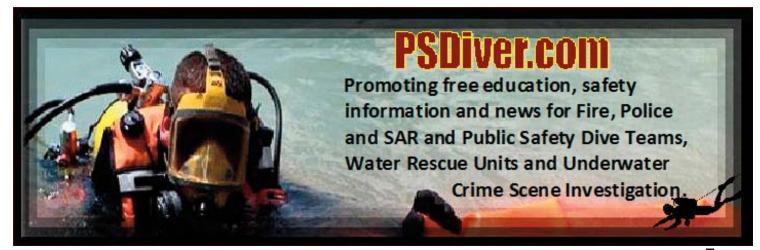
How come we don't hear from Jez so much these days? Well, it's got nothing to do with the number of complaints we get when Jez writes because we never let public opinion get in the way of a controversional article. Nope, it is wholly due to Jez following Ade's regretable decision to become the primary carer for a new child which pretty much gets in the way of every activity you care to mention and is the perfect excuse for the magazine always being late. Except in Jez's case it will be why he never gets his medical homework in on time as he is in the midst of training to be a surgeon. Never let it be said that Jez would shirk a challenge so hats off to him and we wish him well. He does of course maintain his interest in rescue and remains an invaluable Sub-Editor and Peer board member.

Dr MIKE CROSLIN



We are privileged to have Mike (Doc) Croslin contributing in issue 62 and in this Emag and hopefully many more. Mike was one of the original water rescue

musketeers (founders of Rescue 3) with Jim Segerstrom and Barry Edwards. Jim described Mike aswell, lots of things, but one of the printable ones is "the brains of the outfit" and a "wayward genius". It is our hope that Mike continues to share his considerable knowledge of water rescue and SAR and to inject some solid old-time experience into what many seem to think is a new subject!



GEAR REVIEWS by Ken Osterkamp aka GEAR FLOGGER



Surf Survival

OK, full disclosure: like Charlie, I don't surf. And after reading Surf Survival it's possible I am too scared to ever try, but if I do you can bet your waterlogged ass I'll take this book with me. SS is written by a trio of doctors: Andrew

Nathanson, Clayton Everline and Mark Renneker, with a foreword by surfing legend Gerry Lopez. Their purpose seems to be to catalogue everything that could possibly go wrong to inflict pain, disease and humiliation on a surfer's body. And oh do they succeed. After a few gentle chapters on basic sea sense, fitness - accompanied by beautiful surfing SheFlogger yoga pictures - and nutrition, they get to the gory stuff. Graphic photos of throats cut by surfboard fins. Nasty shots of third-degree sunburn. Shark bites, rashes, knobbies, ulcers, it's all here baby. The cure for most of this? Piss: "...surfers from all corners of the globe seem to share the widely held belief that urine is the universal antidote for all manner of marine stings... if it is a jellyfish sting, piss on it. Fire coral sting, piss on it. Sea urchin, stonefish, whatever: piss on it. Unfortunately, this time-honored remedy is not supported by a single shred of scientific evidence..." No backcountry buddy should ever let so-called scientific evidence stand in the way of urinating on a friend, but let's ignore that for the moment. Surf Survival is easily one of the most comprehensive sport-specific health and wellness handbook we've ever seen. With solid advice from medical professionals, statistics to back up their claims and information on everything that can go wrong with every part of the surfer's body, this book is clearly an instant classic. Call it sixteen chapters to a longer life. For diagnosis, prevention and treatment, Surf Survival is the go-to book for grommets and bitchin' betties alike.

leatherman SKELETOOL multitool

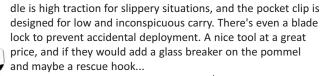
Some marketing exec at Leatherman is sitting around one Saturday morning, probably stoned, watching Masters of the Universe and eating his third El Capitan-sized bowl of Crunchberries. "Skeletor," he thinks after watching the evil villain be defeated by yet another dumb do-gooder trick, "is a Skeletool!" Hmm, he thinks, I could use that...Luckily the product engineers are sober and able to convert, and the result is one the best backcountry multitool available. It's

light at 4.9oz, and it's efficient, with just what you need: blade, needlenose/regular pliers, wire cutters, four double-sided bits (Phillips #1 and #2, flathead 3/16 in. and 1/4 in.), removable pocket clip and wiregate 'biner clip that doubles as a bottle-opener. A separate \$20 bit kit gives you a chromosome's worth more double bits (42 total) including Pozi #1 and #2.The feature set is impeccable, the quality typical Leatherman high-bar, and the usability great with an adjustable. The fine blade is a versatile drop-point with a thumb-hole for one-hand opening. The CX version costs a worthwhile \$20 more over the full stainless version and adds four things: a scratch-resistant coating (nice), a 154CM blade (very nice), a piece of carbon fiber in the handle (um, OK, subtract 1 gram in weight - no, I'm not kidding) and a serrated bottom half of the blade (best for cutting cord and webbing). Kudos to Leatherman, this is the perfect backcountry companion. \$62.97 at Amazon

sog SAR _i

knife

SOG, purveyors of all things sharp and shiny, offer a design for those folks who need to cut cord, webbing, seat belts, and other stuff, often off of people in difficult situations. The SOG Flash II Rescue knife features a safety blade design with no tip, the better to work next to skin you don't want to cut. The blunt tip can also be used for prying and scraping, and the broad spine allows you to put a little ass into it with two hands if you're desperate. The thumb wheel is backed up by an assisted release mechanism that snaps the blade into position securely. The blade is 2/3 serrated and will go through textiles like a laser. The Zytel han-



\$43.32 at Amazon



black diamond FUSE lumbar na Whatever happened to the black leather fanny packs from the 80s? Oh, that's right, we turned them around, tricked them out and now we call them lumbar packs. Like hair bands and Vanilla Ice, that just proves that you can't keep a good idea down, and Black Diamond serves up a nice model with the Fuse.

up a nice model with the tube.

The Fuse is a speedy little number, weighing in at 8oz.

Dual water bottle pockets suitable for 20oz bottles or smaller have two straps each to adjust fit so your hydra-

way into a tunnel between the main pack and the waist belt. The waist belt has a zipped pocket on each side for nibbles, and the main pack has a smaller zipped pocket inside with a key clip. The Fuse is a great minimalist pack for trail runners and fast hikers. The large paddle shaped hip belt is comfortable, and the mesh lining does a decent job of managing sweat, at least to the point that it around too much on bare skin. A nice touch is the dual side pulls to tighten the waist belt. It's just big

doesn't slide around too much on bare skin. A nice touch is the dual side pulls to tighten the waist belt. It's just big enough to store a light shell jacket and snacks, and with two bottle pockets you can use one for water and one for bear spray if you need to. The Fuse does the job and won't slow you down.

\$44.95 at Moosejaw

CANPRO® &





NANUK 930 hard case with padded dividers A SYPDERCO Byrdrench multi-tool + PHOTOSHOP5 or LIGHTROOM3 Software or Manfrotto 055 Tripod



Copyright to your photos remains entirely yours, TRm only requires their use for competition -related pages and galleries. Should we wish to use them for any other use we will negotiate directly with you for permissions.

This second year of the competition is again sponsored by *CanPro Global* of Canada and has four categories:

- •WATER RESCUE (inc boats)
- •HELICOPTERS/ VEHICLES
- *USAR/EXTRICATION (including fire, con-space, industrial rescue & disaster response)

• ROPE RESCUE (including cave, mountain and wilderness SAR, tactical & industrial)

Winners of each of the four categories will receive a

A Nanuk 930 hard case with padded dividers
AND a Sypderco Byrdrench multi-tool

AND PhotoShops or Lightroom3 or a Manfrotto 055 carbon Fiber Tripod

GO TO: www.trescue.com/photo2011 to enter

PHOTOS LEFT: Grimp Day's official photographer Belgian professional Eric Hourant could have any number of shots entered such is the quality of his photgraphy (as you would expect of a pro!) This one shows well the effort involved in using a descender-based ascending system once you pass that 50 foot mark!

Mike Croslin's dynamic (but unfortunately far too low a resolution to be entered) photograph of testing of PFD's in a realistic swiftwater scenario.



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www.canproglobal.com

TECHNICALRESCUE will be giving away 10 FREE TICKETS

IMAX RESCUE IN 3D

to RESCUE to the first 10 email respondants who can tell us the name of the Robot on the cover of issue 54 of Technical Rescue - that should narrow it down to our longerstanding

subscribers!

CLICK

HERE to

ENTER COMPETITION

DIRECTED BY JOHN LOW

FILM SYNOPSIS

Rescue plunges audiences into the hard, but inspiring work of saving lives in the face of a natural disaster. Behind the scenes, the film follows a Canadian naval commander, two pilots, and a volunteer rescue

technician as they train for action. When an earthquake strikes Haiti, creating one of the biggest humanitarian disasters of the century, the audience is swept along, joining with the massive effort that brings military and civilian responders and hardware

from around the world. Rescue is a journey of real-world disaster and emergency response captured (in 3D) with unprecedented scale and impact for the giant screen.

RESCUE is a
45-minute documentary
shot in wide screen (huge-screen!)

IMAX in 3D giving a never before available perspective on the work of rescuers both in
the pre-rescue training phase and when it all kicks off.
As interesting to professional rescuers as it is to the general public.

SUBJECT BACKGROUND

Disaster Response: USAID's Office of U.S. Foreign Disaster Assistance (OFDA)

USAID's Office of U.S. Foreign Disaster Assistance responds to all types of natural disasters, including earthquakes, volcanic eruptions, cyclones, floods, droughts, fires, pest infestations, and disease outbreaks. USAID/OFDA also provides assistance when lives or livelihoods are threatened by catastrophes such as civil conflict, acts of terrorism, or industrial accidents. In addition to emergency assistance, USAID/OFDA funds mitigation activities to reduce the impact of recurrent natural hazards and provides training to build local capacity for disaster management and response.

Last year alone (2010), USAID/OFDA responded to 73 disasters affecting millions of people worldwide, providing approximately \$974 million for the purchase and distribution of emergency relief supplies and to support disaster relief and mitigation activities.

Total budget for 2007: \$573.4 million.

Categories of disasters: flood, "complex emergency," hurricane/cyclone/typhoon, wildfire, earthquake, drought, food insecurity, health emergency, storm, tsunami, urban fire.

How USAID/OFDA responds when they receive a formal request of assistance from the affected country:

• Deployment of an assessment team or a Disaster Assistance Response Team (DART) if needed

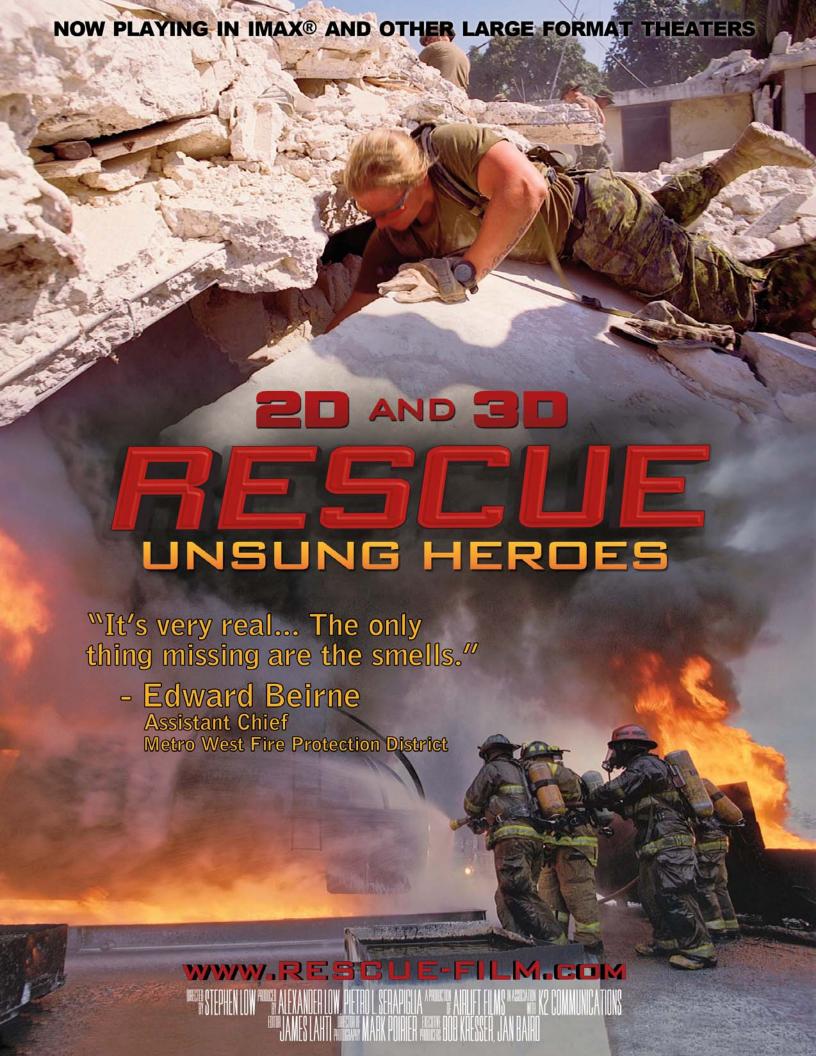


- Activation of an on-call Response Management Team (RMT) in Washington, D.C.
- Procurement, transportation and distribution of emergency relief supplies, such as plastic sheeting, water containers, purification systems, blankets, health supplies from one of three regional warehouses.
- Provision of funding for flash appeals and proposals from implementing partners, including non-governmental organizations (NGOs), U.N. agencies or international organizations.
- Prep-positioning of personal and relief supplies in the event of an

impending disaster, such as hurricane or volcano eruption.

• Support for various relief and rehab activities through grants to implementing organizations.

USAID/OFDA regional advisors are based in Costa Rica, Kenya, Senegal, South Africa, Thailand and Nepal – strategically located in the most disaster-prone areas of the world. There is additional field staff in countries where humanitarian needs require vigilant monitoring – such as Sudan and the Democratic Republic of the Congo.



OUT NOW

ISSUE C

Issue 61 was the first issue in ages that went to print on time.....and then it got held up for a string of reasons beyond our control and still ended up being late! We had a complaint about issue 61 which despite our tardiness is just about the first ever complaint - you're such a paitient lot! But it wasn't about being late, it was one of our own crew daring to suggest that the mag looks too 'busy'. And actually, I have to agree. Our trouble is that we're always trying cram a quart into a pint pot when what I would really like to do is have big white spaces and stand-alone pictures, kinda like a Conde Naste Travel magazine. Big pictures, lots of open space and fonts so big your grandad could read it from across the room. Maybe next time!









Above Left& Right: Our Team article is from South Korea. Busan Fire Department's Special Operations Division has a diverse range of skills including a comprehensive water rescue capability. Steve Jones is our man in Busan but this will not be the cover as it is not quite the correct orientation. **Left:** The first in an outstanding

series on Emergency Management in Antarctica sees Martin Boyle moaning about how cold it is and how his bedding plants never seem to last. Left: Although titled 'USAR Basics' this article by Ian Nuttal of Leicestershire Fire Service in the UK is in two distinct parts. the first deals with the fundamentals of builling collapse and is relevanmt to all rescuers. The second part details exactly how USAR Dogs locate victims at a

collapse.

Below Left: That man looks familiar and doesn't he seem to get everywhere. Ian Plater, just visible to the left of the word 'BASICS' will again feel aggrieved that his job as model has been usurped by Rich Hackewell. In this article we look at First Response Rescue. It may seem strange to have first response as one of the last in this series on rope rescue but we consider rapid response to an injured casualty to be an advanced procedure calling for experience and a cool head as it is often

undertaken with the minimum of equipment and back up. Above: FlatBottom Boats is this issue's Market Guide but it's proving difficult to break this down into a meaningful sub-category so may well change to just Alluminium or just plastic/GRP. Right: Rich Denham and Nick Appleton of London Fire Brigade continue to plunder the depths of their knowledge (somewhere near the bottom of the barrel) for this instructional series called QuickCuts. This issue focuses on how to attack a sliding door as might be found on an MPV or van.

Right: Lee Lang takes a look at the Kong Robot and Kong Hydrobot but was largely disappointed in their performance in the field. Other Reviews in 61 include Ben Waller on the Force 6 PFD and more multitools come under the microscope as we see whether a SOG, Leatherman and Victorinox score enough to progress to the final.

Bottom Right: As our great friend Doc Stewart Boyd moves out of the cauldren and into the relative salad bowl of a Dublin Hospital, South African Paramedic Steve Daley flies solo with a series of articles on ballistic trauma. In this one he discusses the problem with shotgun wounds.









HELI-WISDOM

Not the only time you'll see Mike in this Emag and he is writing in issue 61 about PFD design - if you wear a PFD or make PFD's this is one article you don't want to miss. In the meantime, as one of the originators of the term 'swiftwater rescue' there was a steep learning curve to overcome. So, back in the day.......

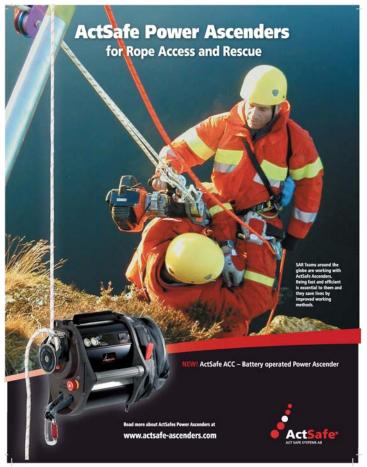
..... let me tell a brief cautionary tale from my early days in SAR in the Sierras, pre-Rescue 3, back when Segerstrom and I were in our steep, learning-curve phase. Jim and I had just started TCSAR and had yet to learn the hard lessons, like: Be careful for what you ask for! Eager to put our new skills to work, we responded to the report of stranded, 'extreme' boaters on the Lower Stanislaus, which is a class 4-6 run with numerous portages required. A single raft party had misread the guidebook and mistakenly entered a portage section, then tried to abort at the top by purposely wrapping the boat at the top. Three boaters were trapped, a complete nightmare. There was no route to swim out. Jim got to the river first, (the rest of us lugging big loads of technical gear off the canyon rim. (Sound familiar?) Segerstrom over-reacts in a paroxysm of 'heroism', dons his lifejacket and in knuckle head form...totally out of control... flails out to the rock, which is one hell of a ballsy move! There he is, stranded, but not fully comprehending that he is totally screwed. Somehow Jim had this fantasy vision that I could spontaneously engineer a technical system to yank both himself and his hapless and now, disappointed 'rescuees' off the rock. He never scouted for anchors, or took a good, hard evaluation downstream...if he had he NEVER would have plunged headfirst into the 'locker'-(a typical 'early Segerstrom' reflex). In fact, there were no good anchors, the rock was rotten shale, and the swim out: deadly. It was time to call for a "helicopter to rescue Jim" now and screw the other boaters, still ensconced on their craft, We get on the radio to the SO and tell the SAR laison: "We need a ship that's hoist-capable as there's no other extraction option". This is pre-short haul for the Sierra Nevada. Somewhere around two hours elapsed with us clenching our jaws and peering into a black hole. Jim's floundering around and suddenly I hear a very unfamiliar: WOP-WOP-WOP. I hadn't specified to the SAR laison to tell SCOTT AFB, the National SAR Headquarters, what type of ship I wanted. I just wanted something with a hoist. Over the ridge comes the biggest, loudest, most obnoxious Helicopter I've ever seen in my life...big refueling boom sticking out the nose, painted grey with USAF designation, and here come the Air Force PJs to Jims rescue!!!! I could almost hear the trumpets!

I can't describe the look on Jim's face. He was so excited that I'm sure he peed himself. The ship took a few scout passes, scouring the terrain. Jim leapedlept up on his over-crowded 'refuge' rock, and started waving frantically, elbowing the 'victims' out of the way. The Ship arced and flared to come in for a hover and....well, this was a Pave Low, with the biggest, baddest, hurricane-type rotor wash on earth. It literally blew Segerstrom 'airborn' and back-flipped him off the rock and swan dived him directly down the class 6 drop. OUCH!! I honestly thought, for certain: he was dead. I'm sure he did too. 'Unfortunately', I've got a treasure trove of near-death stories like these from our early days of 'false' starting Rescue 3 but this time was Jim's closest "Come to Jesus" experience EVER. When I took a look at him, finally top side, he was one big contusion from stem to stem. His entire backside was black and blue and he could barely walk for several months. The payoff? Lessons learned. I learned: be careful what you ask for! Be specific in emergencies and possibly consider dog shock collars for any 'newbies' anxoius to be first arrivers, all too eager to hurl into the water to catch themselves on the six o'clock news. Too often that spot is seen from a VERY high altitude. Way too high, like forever!.

I miss you Jimbo. You learned so many lessons the hard way. Just like me.

MC





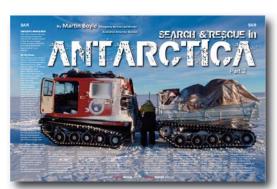
MAG INFO

OUT MEXT MORTH



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Top Left: Martin Boyle, our man in Antarctica continues his series on how to manage and respond to emergencies in the coldest place on Earth Left: Daryl Ashfor-Smith of London Fire Brigade looks at rope rescue on tower cranes something London has had lots of in recent years with the 2012 Olympics construc-

Left: We awake the sleeping giant as Dr Mike Croslin looks into the history and design ofPFDs, where it went wrong, where it went well and where it needs to go

Below Left: Using Mike's article as our introduction we continue seamlessly into the Market Guide to the current crop of rescue PFDs with all the fact s and figures you'll ever need to decide on a purchase.

Above: We start a series of articles from New South Wales Ambulance Service's Special Casualty Access Team. It's been a long time since we last worked with SCAT, issue 4 or 5 in fact but they still rule the roost in heli-ops and difficult access medi-cases. Cam Edgar is our inside man for this what will be a regular feature in every issue - the involvemnet of ambulance services in rescue. In the UK HART is developing a similar role and replacing the handful of SCA Teams that did exist with a nationwide response. **Below:** Steve Daly continues his series on ballistics for medics with a look at high and low velocity gunshot wounds. And he should know, second only to afghan combat medics (currently) the South African trauma scene remains heavily oriented towards gun and knife trauma.

Above:

NOT the actual front cover since this isn't our photo and we're not sure who owns the rights but it is our man Cameron (Cam) Edgar of the **NSW Ambulance Special** Casualty Access Team so it really could have been the coverl

Below: One of two extrication articles this issue. The first is our London Fire Brigade series of handy tips and this is our seconds, a follow up to last issue's Struts article from New York Firefighter Cris Pasto. This time he deals with the hitherto little reported problem of an undercarriage/chassis failing when the car is on it's roof. With the bulk of a vehicles weight dangling in mid air it is possible for a chassis to fold with dire consequences. Cris looks at how to reinforce the subframe during an extrication.









You may think that Mike has taken over this Emag but there's a good reason for that. As Gary succinctly put it, we may have awoken a sleeping giant in giving Mike free-rein to put into words all of his considerable knowledge on PFDs. In so doing we also get to relay a wealth of rescue anecdotes and incidents from one of the true legends of the water rescue and SAR industry. His PFD article precedes issue 62's Market Guide to PFDs as it is a far better history and appraisal of current design than our normal introduction would have been. Here is Mike's precis of the upcoming article.......

This review addresses current and hopefully, coming trends in the development of a new and specialized class of enhanced Rescue PFDs already on the horizon and discussion of their enhanced features, being safer in the field with more comprehensive engineering and greater range of potential application. I also focus on regulatory hurdles faced by designers and manufacturers in bringing highly specialized designs to market. This review is not a summation of the general class of QRHS enhanced rescue jackets but rather a look at trends and upgrades in design and application testing.

Far from the idle pleasures of collecting 'new toys', there's a pressing need for critical new tools in response to environmental change. With the tempo and severity of Global Climate change looming, we must adapt to its consquence: severe shifts of temps, melts and flooding. In these unpredictable conditions we hope to provide the best chance for survival for both rescuers and those in trouble. It's important to think ahead of the crisis.

Having spent trillions on technologies designed to harmfully impact human life, thanks to a corporate spirit of highly profitable 'weapons of mass collaboration', I feel the time is now to prepare for a 'cause and effect' inevitability of increasingly harsh operational tempos and requirements of swiftwater/flood rescue. Nothing is more important than maximizing the simplicity, comfort, retention, protection, reliability and extrication capabilities of this central platform around which all water operations depend.

"You better start swimmin' or you'll sink like a stone., 'cause the times they are a'changin'" Bob Dylan.





ARB RESCUE

[ED:This incident was from 2009 and relatively simple to handle with an aerial ladder but could so easily have been more serious. There is a reason for mentioning this article as the pages following this article explain.]

Firefighters free arborist from pinning predicament Story and photos by David F. Ashton

Before taking action, firefighters and members of PF&R's Specialty Rescue team evaluate the condition of the arborist, and the overall situation.



As one who used to live on Mt. Hood and routinely cut his own firewood, Brentwood-Darlington resident Brandon Smyton said the two arborists cutting down trees behind the house across the street from his home, in the 5800 block of SE Tenino Street, caught his interest, as he was on his way to the store about 11:30 a.m.

"The sound of the chainsaw stopped," Smyton told us. "I couldn't hear



what they were saying, but I gathered that their saw got pinched in the tree and it was no big deal. It sounded as if the man up in the tree was calmly talking to his partner on the ground, making a plan to get the stuck saw free."

When he got returned from the shopping trip, Smyton said he found his street filled with Portland Fire & Rescue (PF&R) ladder trucks, and the PF&R Specialty Rescue van. "It was then that I realized the seriousness this of the situation."

Large limb pins arborist



"When our firefighters arrived," explained PF&R spokesman Lt. Damon Simmons, as we watched the rescue effort unfold, "they found that a large limb which the arborist was cutting fell, struck him in the shoulder, and pinned his harness and left arm to the tree."

Noting that PF&R Engine 1 – a unit which typically only serves downtown Portland – was rolling up to the scene, Simmons commented, "This is our Specialty Rescue unit. These firefighters are trained for, and better equipped for, what we call a 'high angle, technical rescue', in which the victim is at least 30 feet in the air, and is hanging in the air unsupported."

Firefighter Rich Chatman, a Technical Rescue Team member, talked us through the rescue...

"We were concerned that if we did anything to move the top of the tree branch resting on his arm, it would shift the limb toward him, making the situation worse," Chatman explained after the successful rescue. "We had to come up with a unique plan for securing the tree, securing victim, and then cutting his [safety harness] system that was holding him." After securing the victim with ropes, rescue team members used a small "come-along" winch between the trunk and the limb and free the arborist's arm. "The tricky part was when we cut his restraint system, because that also was caught in the tree. I'd say it's the scariest thing I've ever done."

While some rescuers secure the treed arborist, others winch up the limb. With his arm free, the arborist gets a footing on the fire department's extension ladder. While the team was making the plan and taking action to free him, the victim was conscious and lucid, Chatman commented. "He was a real trouper. He knew we were working as hard and as fast as we could, to free him."

IN THE NEWS



Victim descends ladder to safety

At about 1:00 p.m., many of those watching the rescue said they were surprised to see the arborist slowly climb down a tall ladder the firefighters secured to the tree. "We were going to lower him using a rope system," Chatman said, "but he started climbing down as soon he could. But we had him supported all the way down."

Freed from his predicament, the arborist makes his way down a ladder,



with a firefighter at his side on a parallel ladder. Firefighters and paramedics help the arborist at the ladder's bottom.

Although the freed, unidentified arborist could walk on his own, AMR medics quickly got him to lie down on a gurney, and transported him to OHSU Hospital for evaluation and treatment.

As crewmembers started packing their equipment, and as Station Truck 25 was retracting its 100-foot ladder, we noticed the other arborist climbing back up the tree. "He's going to retrieve the chain saw, isn't he?" Smyton remarked.

With the victim safely on the way to the hospital, the arborist's partner climbs back up the tree to retrieve his chainsaw.



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CONTENT SHOWN HERE WILL ALTER BEFORE PUBLICATION IN OCTOBER



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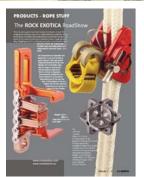
UK, EIRE, GERMANY, AUSTRALIA & NEW ZEALAND Sterling 20 for 4 issues

ARB CLIMBER magazine

t last a magazine specifically for climbing arborists and riggers. ARBCLIMBER combines our 20 years of equipment and rope rescue/access knowledge with our strong ties to the arb world and adds in some current legends of the industry like Tobe Sherrill and his Sherrill Tree crew, Chris Cowell of Treemagineers and Josephine Hedger the Woman's World Champion and record-breaking tree climber (and working arborist). With other expert input from the US, Canada, UK, Germany, New Zealand and Australia you can be sure to get the full technical picture. And for those of you in rescue that may wonder what the link is, let me tell you that the thing I've always bleated on about in TECHNICALRESCUE about arborists making the best rope rescuers because of the need to work at height, on inherantly unstable 'structures' while directing and handling heavy loads AND weilding the most dangerous tool in rescue the chainsaw - has truly come full circle. Because, whereas in the early days, those of us applying mountaineering techniques and equipment to arb work were very much in the minority, these days that kind of technical approach to arb ropework is not only the norm it has overtaken rescue in many ways and especially in terms of heavy rigging and load handling. So-called 3Dimensional rigging comes to us from arb and much of the newest hardware designs are aimed at arborists. So......if you're interested in technical ropework/rigging or chainsaws or both then don't let the fact that you're not an arborist put you off bunging more money our way and subscribing - just ditch one of your other fetishes or vices if you need to justify the money. You'll recognise the style and format of ARBCLIMBER as very much the same as your trusty old TECHNICALRESCUE magazine and just like TECHNICALRESCUE magazine, ARBCLIMBER is bound to be late every so often but we should be OK to at least start on time since most of the magazine is already complete. In fact, because of the crossover expect to see one or two articles artistically reworded and sent back across to appear in Technical Rescue. Go on, what are you waiting for, check out www.arbclimber.com and part with more hard-earned cash. Ade











DIGITAL VERSION

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Hard copy Issue 60 is being mailed now - it was printed on time for a change but our excuse this time is that we have tried to make our Heath-Robinson mailing system a tad more sophisticated by giving the whole damned lot to a professional outfit to send for us. So the printer had to sit on our mags while we rapidly changed things around in time to give them a new delivery address! We are however still on time for issue 62 in the Autumn so don't get too attached to issue 61 because there will soon be another one. Who knows, we may even get our 4 issues out within the year which will be a first.

Back to th digital, page-turning edition and that did come out on time and is available free of charge to hardcopy subscribers or is only \$10 (or about £7.) a year for 4 digital issues.

While we have seen a good uptake on the digital version those doom and gloom merchants who predicted the end of printed magazines, papers and books will not be pleased to hear that our hardcopy subscription continue to increase well beyond that of the digital version. So, just to be clear once again, the digital version of Technical Rescue magazine is *in addition* to the hard copy magazine which remains our core product. If you subscribe to the hard copy magazine you get the digital version for free, no need to subscribe to both. . Check our website for news of the digital version:

www.trescue.com

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BLACK DIAMOND MAGNETRON

Throughout the decades, we've been at the forefront of revolutionary carabiner design here at Black Diamond Equipment—from Yvon Chouinard's original ovals; to the climbing world's first-ever wiregate, the HotWire; to the cross-load-eliminating belay carabiner, the GridLock. Never satisfied with the status quo, we're always striving to develop the next great carabiner design innovation, which has led us to our latest game-changing advancement: Magnetron TechnologyTM.

What's so special about Magnetron Technology? One word: magnets. Yes, that's right—locking carabiners that utilize magnets and not twistlocks or screwlocks on the gates. Available on select locking carabiners in July 2012, our patent-pending Magnetron Technology is so revolutionary we decided to share a sneak preview with you now to get you stoked. Here's the basics: using the power of magnetic fields to reinvent the locking carabiner, the Magnetron GridLock and the Magnetron RockLock locking carabiners combine maximum security and ease of use like never before.

- Magnetic attraction to a steel insert in the carabiner nose keeps two independent arms securely locked
- Locking arms must be individually depressed before the gate can be opened
- Once open, opposing magnetic fields repel the arms to ensure smooth and reliable gate operation
- · Symmetrical design allows for easy one-handed operation (right or left)



For an in-depth look at the concept and development of Magnetron technology, watch this video, and then look for the Magnetron GridLock and the Magnetron RockLock to be in stores by July 2012. If you are a member of the outdoor industry, be sure to check out the Magnetron GridLock and the Magnetron RockLock in person at Black Diamond Equipment's booth during the Summer 2011 OutDoor Europe and Outdoor Retailer tradeshows.

www.blackdiamond.com



GRIMP/RESCUE DAY 2011



ongratulations to Swiss Fire & Rescue Team Neuchatel who took the honours at this year's rope-rescue event based at Namur in Belgium. Home town advantage was utilised as Belgian hosts Namur Rescue Team took second spot with another Belgian team, this time from the Army, took third.

No fewer than 14 european countries were represented by 40 teams from across the emergency services community at this year's event.

Grimp Day is a timed rope rescue course which brings together a range of disciplines aimed at pushing a team's interaction in accessing and moving a casualty from a range of challenging locations often involving the great medievel walls and buildings of the city. It is organised by Namur Fire Service. Having stepped down last year the original organiser Laurent Lombard has made way for Richard Coqu to organise the techncal element while

Johan Demanet continues to sort out all the administration.

Scenarios included a vehicle at the bottom of a 'cliff', vertical hauling up the vast faces of Namur's old walls and 'tyrolean' evacuations across the river.

Some fantatstic photographs of the event including those shown here were taken by Eric Hourant and he has several galleries to view on the Grimp Day website at www.grimpday.com







WEST MIDLANDS BEST PERFORMING UK TEAM

A team of Firefighters from West Midlands Fire Service's Technical Rescue Unit were recognised as the best performing UK team in an international technical rope rescue competition held in Belgium at the weekend.

The competition, which takes place annually and is known as GRIMP Day, brings together specialist rescue organisations from all over the world. The aim of the competition is to rescue a casualty from a variety of challenging situations whilst demonstrating technical excellence and first aid knowledge.

The West Midlands Team, which consisted of Firefighters Shaun Crone, Steve Lock, Paul Staples, Roy Phillips, and Rob Norman were tasked with rescuing their casualty – fellow Firefighter Phil Webb - from a wide range of scenarios.

Individual rope rescue challenges required teams to abseil down the wall of a citadel with their casualty in a vertical stretcher, transport a casualty on a horizontal stretcher over a river to safe ground and conduct a rescue from a vehicle that had been driven over a cliff The exercises required technical excellence in rope climbing, abseiling and rescue techniques and tested the strength and endurance of the team - as the rules state that the casualty must weigh a minimum of 60kg. The competition runs for a full day, with teams moving swiftly from one challenge to the next, and was carried out in sweltering conditions with temperatures reaching $27\,^{\circ}$ C.

This year, 39 teams from across Europe competed for the prestigious title. The West Midlands Team finished in 9th place overall and were the best performing UK team. Vij Randeniya, Chief Fire Officer, praised his Firefighters for their excellence, adding "To see our Technical Rescue Unit competing against teams such as Swiss Mountain Rescue and performing so well is an outstanding achievement.

"This year saw more teams than ever before enter the competition, so to walk away as the best performing UK team is a great accolade".

RANK	TEAM	CITY	COUNTRY	POIN
1	SERVICE INCENDIE ET DE SECOURS	NEUCHATEL	+	814,
2	GRIMP S.R.I. NAMUR	NAMUR		805,
3	COMMANDO GRIMP	MARCHE LES DAMES		790.
4	SAPEURS-POMPIERS VALLEE D'AOSTE - SAF	AOSTA		783,
5	HÖHENRETTUNG BERUFSFEUERWEHR ZÜRICH	ZÜRICH	+	766,
6	HÖHENRETTUNG BERLINER FEUERWEHR	BERLIN	_	762
7	OSLO FIRE AND RESCUE	OSLO	#=	756
8	GRIMP 59	DOUAI		745
9	WEST MIDLANDS FIRE SERVICE	BIRMINGHAM	215	741
10	GRAE BOMBERS CATALUNYA 2	OLOT (50 km Girona)		739
11	HAMPSHIRE FIRE AND RESCUE SERVICE	EASTLEIGH (20 km Southampton)		738
12	T.H.W. BENDORF	BENDORF (10 km Koblenz)		735
13	BRANDWEER HALLE	HALLE		728
14	SIAMU BRUXELLES	BRUXELLES		726
15	CONSORCI BOMBERS VALENCIA	GANDIA	3	720
16	MEATH CIVIL DEFENSE	NAVAN (60 km Dublin)		720
17	SEARCH AND RESCUE SERVICE (S.A.R.S)	VULCAN (360 km Bucuresti)		718
18	CENTRAL SCOTLAND FIRE & RESCUE	FALKIRK (50 km Edinburgh)		71
19	POMPIERS DE SAINT-LOUIS	SAINT-LOUIS (35 km Mulhouse)		71:
20	V.V.F. VENEZIA	VENEZIA		710
21	POMPIERS BEAUMONT	BEAUMONT		704
22	FIRE AND RESCUE SERVICE KRANJ	KRANJ (35 km Ljubljana)	-	70:
23	BERGEN FIRE AND RESCUE	BERGEN		702
24	SOUTH WALES ROPE TEAM	CARDIFF	215	70
25	GRAE BOMBERS CATALUNYA 1	OLOT (50 km Girona)		698
26	SEARCH AND RESCUE BADEN- WÜRTTEMBERG	MANNHEIM		690
27	RED TEAM ZONE " CENTRUM "	GENT		688
28	HOOGTEREDDINGSTEAM V.R.U.	UTRECHT		678
29	BRANDWEER ANZEGEM	ANZEGEM		67
30	KONINKLIJKE MARINE - U.I.M. KLIMTEAM	DORDRECHT		67
31	GRIMP COUVIN	COUVIN		67
32	EPILETKOI PEIRAIAS	PEIRAIAS (8km Athenes)	:=	67
33	BUDAPESTI TUZOLTOPARANCSNOKSAG	BUDAPEST		670
34	POMPIERS CHARLEROI	CHARLEROI		66
35	FEUERWEHR DUSSELDORF	DUSSELDORF		65
36	GRIMP PROVINCE LUXEMBOURG	PROVINCE DU LUXEMBOURG		630
37	GRIMP DINANT	DINANT		-
			-	620
38	BRANDWEER GENT	GENT		588
39	BRANDWEER ARENDONK	ARENDONK		558



WEBER RSX CUTTER PLUS

'The future of cutting', a bold statement from Weber Rescue, but after taking a closer look into the design and development of this revolutionary concept you can clearly see that the team from Weber Rescue Systems have something truly worthwhile to offer. Putting High Strength Cutting (HSC) inserts into the blade arrangement of the rescue cutter seems obvious really, but years of extensive research and investment, along with relentless testing tells you that something so obviously beneficial is not always so easy to achieve. But achieve it they have, in fact the Austrian design team have excelled themselves and brought to the market a rescue cutter like no other in the world, as these new 'Xtreme' performance blades are able to cut the newest composite materials.

AUDI CABRIOLET SUBMITS

Recent tests on the most up to date car posts, including Mercedes CLK etc, have provided testimony to the ability of this tool. One recent testing scenario saw the 'RSX 200 Plus' cutter make multi-

ple successful cuts through the A-post of the new Audi A3 cabriolet. Many firefighters and experienced RTC personnel will appreciate the strength and reinforcement of such post sections.

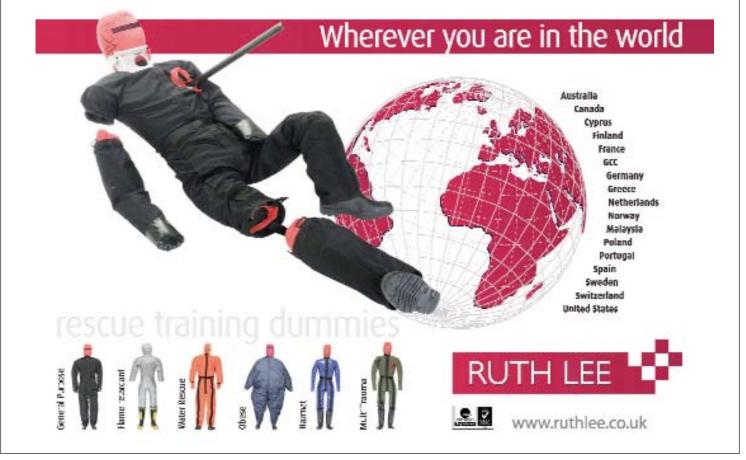
COST EFFECTIVE BLADES

Weber Rescue is not claiming that this cutter has the ability to cut all cabriolet posts, nor should you have the need to do so, but should you ever have the need for blade replacement then you only need to exchange the inserts themselves. This 'life cost' benefit is of great interest to those involved in the maintenance and support of their operational equipment, as the cost of the inserts themselves provides significant savings. The composite make-up of these blades is so specialist that this, says Weber Rescue, could be the only rescue cutter to 'stay sharp' during the life of the tool. For any fire and rescue service who have experienced issues with the ability to cut new car materials, the company would urge them to trail this groundbreaking equipment and join 'Team Gold' as these cutters from Weber Rescue are certainly 'licenced to cut'!

www.weberhydraulik.de







S-CUT

The New (ish) Emergency Cutting Tool

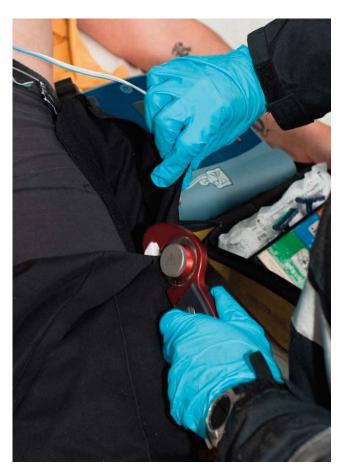
By James Hutchen

Jim is an Urban Search and Rescue Technician with Hampshire Fire & Rescue, and Extrication & Trauma Team medic - World Rescue Organisation Trauma Competition Winners 2010



At the last Emergency Services Show in the UK I met with Adrian King and Paul Daly, very knowledgeable purveyors of something I had been trying to get my grubby mitts on for some time: the S-CUT emergency cutting tool.

I have competed against, and respect greatly, the Swedish Extrication Team, namely West Coast Rescue. Their Team Medic, Jens Hammer, is an anaesthetist and pre-hospital nurse, as well as



great practitioner, competitor and friend. Jens introduced me to this new emergency cutting tool, the S-CUT, which he had been given to promote. I wanted one badly, but it was not yet available in the UK, so I would have to bide my time.

However, at last it has arrived and was formally launched at the Emergency Services Show last November. The product is marketed and distributed in the UK by S-CUT (UK) Ltd and Adrian was there to launch it along with colleague Paul Daly.

The S-CUT emergency cutting tool was developed by Bjorn Ahlen, a Swedish paramedic, with the simple concept of being able to cut through thick or heavy materials fast, to enable a medic to fully expose a casualty whilst minimising any need to move the patient. The intention is to increase the speed at which treatment can start, so improving survival chances. As a design brief it has definitely been achieved. The end product is a perfectly balanced, speedy to use, one handed, well crafted tool with no moving parts and autoclavable, which really is unique and unmatchable. Basically, the S-CUT is a lightweight, hook shaped steel handle with a razor sharp disc located within the hook and is used in essentially the same way as a seatbelt cutter. For optimal performance the tool is drawn directly across the material. There is also a version with a retractable blade added to make an initial hole to place the tool in, which is very useful when exposing car seats.

In use the S-CUT will slice its way through all the usual garments you would expect to encounter: shirts, leather belts, zippers, protective outerwear jumpers, suits and the like, not forgetting that an initial cut and ripping action is the commonest way to remove clothes. However, the tougher the garment the more traditional shears struggle and fail. What makes this even more troublesome

for us as first responders is the fact that these materials are not rip-able (try tearing a leather motorbike jacket).

After extensive trials by Hampshire FRS, the S-CUT does not miss a beat on this test. Boots, belts, bras, climbing/access harnesses, motorbike leathers, Fire Kit, Personal Protective Equipment and body armour have not put up any significant resistance, even military webbing, Osprey armour and attachments. This really is where this tool stands head and shoulders above the rest. At Hampshire FRS we are complete converts in the Extrication Team and I have also shown S-CUT to my TA Reservist Medic Colleagues, who have shown great interest in deploying with it to Afghanistan.

I am a firm believer that when a job starts off in the right manner it sets the tone for the rest of it. Struggling to hack your way to uncover and expose an unstable trauma patient with a set of lim-



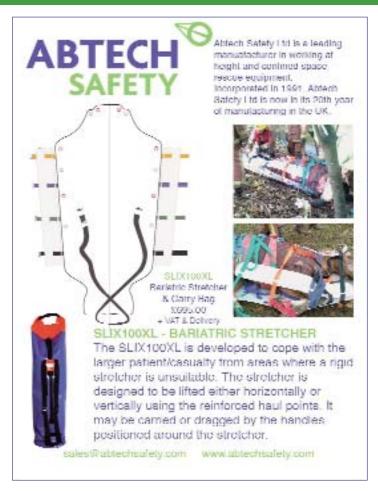
ited use shears causes undue movement and pain to your casualty, with possible neurological implications and just as importantly takes up precious time before you can even begin your treatment with a now heavily sweating brow. This is not a 21st century approach to patient care. Quick effortless and painless exposure, inspiring patient confidence and quick progression should however be the norm, affording you as a care provider, your team and the patient the best possible advantage.

The S-CUT is Skandinavian so, like Saab and Volvo it's not cheap but you get what you pay for. Prices are a little more competitive for volume orders, but let's put this in perspective. Remember the cost of transport (especially helicopters), perishable items, analgesia, pelvic slings and other adjuncts that are the usual for trauma patients and are unchallenged in terms of cost, although they are just as much a part of the life saving mix as the S-CUT. Let me also say that if you expect to encounter your patients robed in tough materials such as in motor sport, military, police ballistic teams, rope teams, Fire Services and other organisations that routinely use enhanced levels of Personal Protective Equipment, to give your patients the best possible chance, and as a professional, you should seriously consider the S-CUT emergency cutting tool to overcome these obstacles and starting treatment as early as you can.

www.s-cut.co.uk

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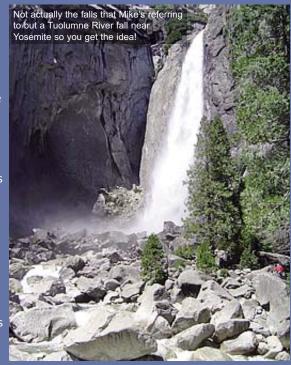
WATER RESCUE INCIDENT

ED: Mike Crosslin, in fact Dr Mike Crosslin to you, is one of the original trio of swiftwater misceants along with Jim Segerstrom and Barry Edwards responsible for shaping swiftwater rescue into what it is today. They formed Rescue 3 and Jim always said that Mike was a

genius with hippy over-

tones:

ometimes there is a particular mission that etches itself so strongly in our mind stream that you recognize only later how powerful it was. THE call that convinced me that cross-training SAR members in multiple areas, teaching them well and pushing them hard has big payoffs. This was pre-Rescue3...but helped steer the boat for curriculum development. We had just started TCSAR in the central Sierra with a devoted group of climbers, rafting guides and volunteers...our area of responsibility huge, remote, trecherous and full of excitement in the early days of the climbing and whitewater boom.



Canyoneering had just begun in many remote canyons in the central Sierra...many clamoring for first descents. Our team roster was all volunteer, and often thin, especially on days with multiple calls. This call only three showed up...the magic number. Myself, and two newly trained teammembers...just having spent a week with Guide Doug Robinson in the high Sierra learning to climb and set up technical systems.

Their first callout was historic...they saved a life. Not just the victims...mine too.

Two Canyoneers wanted a first descent of the South Fork of the Tuolumne river...situated on the rim of the world near the Yosemite border.

Many long waterfall drops in a tight slot canyon...the water and slick sliver of granite the only way down. No retreat possible unless you fix lines... The two canyoneers got into trouble quickly... only after negotiating three long drops and two challenging swim outs. On the third drop the lead judged the pool below wrongly...jumping off a 80ft sliver of granite next to the river directly onto a submerged boulder...instant femur fracture...stuck in the cold mist, his partner stuck too...they fixed no ropes back. His partner was able to retreat only one drop back...and spent 12hrs screaming over the roar of the falls up to the next pool where another group was scouting the drop. Complete and total luck he was spotted, and one of the party hiked out several miles straight up to call the SO. We arrived several hours later...one hour drive just to get to the canyon rim. This is one of the worst places you can imagine to get stranded. The only way to the canyonneers was to set fixed lines, and rap right next to the long falls. My teammates were a husband and wife...newbies just

finished with a crash course in technical rescue and swiftwater orientation...I was frightened, I cant imagine what they were thinking...their first callout right into the heart of darkness...little light ever hits this slot...way too tight for a helo...the only way out is the

way in... Total committment. We called for backup, but made the decision to scout ahead, fix lines and gain access...After the first two drops, Benton and Karen informed me they only jumared once and then only 30ft or so. I remember smiling and telling them they would get plenty of practice today. The first canyoneer was in pretty bad shape, shivering uncontrollably from the mist and convinced his partner was dead...hadnt heard a peep from him and decided to not make the same jump...wise decision. We learned they had no ropes...no thermal protection...no lifejackets and clearly no brains.

The river was running less than 500cfs, but drops over 500 ft/mile...freighttrain forces...only a few feet of dry granite next to the river, then steep walls making the working ledge less than 25ft by 3ft...tight and angled so any rope slides in the water...not good. Placed a 3/4 bolt at the top of the 25ft ramp and found a thin seam for some knifeblades to keep the rope out of the waterfall and set Benton and Karen to work drilling some more bolt holes and to get set to do a raising. Rappelled off next to the waterfall, I quickly assesed the gravity of the situation....mine... the smart move would have been to bail..the water periodically surging

over the falls and slamming me silly...Just no room to manuever..wall then water...I could see the injured party had wedged himself in a small pocket behind the waterfall and had covered himself with trash bag from his fanny pack...saved his life no doubt. He was awake but shivering uncontrollably. Swollen thigh, broken ankle...had been munching on gorp keeping his calories up...lots of pain. . I had a surfsuit on, lifejacket, helmet...but I was getting hypothermic...cant hear my teamates above...but the plan was for me to jumar out after giving more thermal protection to the victim. Suddenly I feel the rope tighten...no amount of yanking or screaming could stop it...thought maybe backup had arrived and the crew was set to haul...switched over quickly, put a tragsitz on and somehow was able to get the guy postioned on my back, clipped in...the rope just kept inching upward...70ft up to the ledge....seemed like forever 10ft up, then 20....relentless little jerks yanking the two of us up the wall...me trying to keep the poor bastards leg off the wall with my legs, getting slammed by surges of water, the guys arms wrapped around my neck choking me out...all bad...both of us fighting for an airway as those two knifeblades I set for direction change popped and we both pedulumned directly into the falls..last 20ft we both got yanked straight through the falls.

We both kept our airway by keeping our heads down, ...both so cold and numb we barely speak...when we broke through the water on the lip of the falls...l could not believe my eyes....To this day I cry even thinking about it. Just Benton and Karen smilin, gear everywhere, more mechanical advantaged rigged on a single thin strip of granite than you can imagine...just two newbies despirate to raise the dead pulled off one of the most amazing feats in my SAR history...yanking two idiots straight through a slamming waterfall. Saved my life..no doubt...and his. MC

WATER RESCUE PRODUCTS

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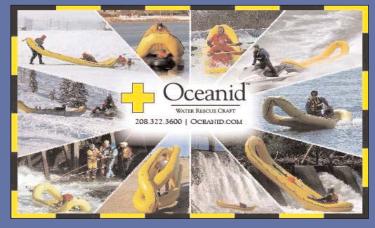




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what I

knives do

ADE: As distinct from multitools which I am far more likely to carry than a knife but there is one that has stood the test of time and to which I have remained loval despite all of those tempting hussies that have thrown themselves at me, the Kershaw Rescue Blur. Hard to say what keeps me faithful to this one because on the face of it

she's not particu-

larly good looking

or well endowed

(I'm still talking about the knife) but it feels so good in the hand (... still talking about the damned knife) with a reassuring and addictive blade release and locking mechanism. The blade itself is a really robust, brushed stainless steel, round ended combination clip with serrated section. The latter is concave and readlily receives and cuts rope. The blade release I mentioned is due to the spring assisted opening which, thanks to Reed's favorite president is not now classed as a flick-knife or switch blade and you are allowed to carry if in public safety at least that will be my excuse if I'm ever caught with it in a bar fight. Fat lot of good it will do me in a bar fight too - did I mention it was a blunt ended knife? The Blur just has the one blade but there is a subtle little carbide tip gently protruding from the end of the handle for breaking tempered glass - something we see less and less of these days. There is a textured inlay rather like emery paper which allows you to get great purchase with your thumb for increased power on the pull or push stroke even in the wet. Other than that, a belt clip, the blunt end so I don't accidentally stab myself or anyone in that bar

from a non-rescue knife. But at 3mm wide at the hilt and only 8cm long that blade is quality. Mine doesn't show a micron of rust or tarnish which has nothing to do with the number of times it gets rubbed. Well done Kershaw because I think the Blur is a modern classic.

CHURCH: I don't have a rescue knife per se. I've carried a Kershaw 1660CKT for many years. Very reliable and does pretty much what I need it to. It's nearly indestructible, light, reliable, versatile, and so on. I seldom leave home without it. For extrication I carry the knife, and a ResQMe tool.

CHRIS: Having been told I can't go on about how good my old Kershaw A100 Multitool is; on the purely knife front it would have to be the Gerber Ez Out Rescue knife in yellow with the serrated blade. I have used these knives for the last 10 years and always have one with me when I'm afloat either teaching lifeboat crews or doing swift water rescue. I have managed to cut through 3mm rigging wire in a rescue of a trapped dingy sailor on the Solent. granted it was a brand new knife and there was an element of adrenalin pumping but none the less, an impressive achievement. I currently own five of these knives and have them strategically placed on my various bits of kit and in my Landover.

BEN: For swiftwater, I like the classic Gerber River Shorty. In order to avoid losing the knife to the well-known problems with the factory sheath, I have switched to a RiverCity Kydex

sheath. That sheath is bombproof. River City has apparently gone out of business, but DownStream Knives in Greenville, SC makes very similar moulded sheaths. My backup river knife is a Spyderco Tasman Salt (around \$100. and designed specifically to cut rope and netting at arms length by drawing the material onto the cutting edge - the socalled Hawksbill). For general firerescue work, I have a Gerber paraframe folding knife. For extrication, I have a Benchmade Rescue Hook F5 for seat belts and victim clothing and a Gerber River Mate with the screwdriver/pry bar tip.

ROB: My favourite knife for many years has been the Spyderco Rescue Knife. I really enjoy the quick open and quick lock ability of the knife, using the large ring, one can open the knife with one hand. Some knives have an unlocking mechanism that involves moving your fingers below the blade to release the lock. The Spyderco system has an unlocking system at the back of the handle, well away from the blade. The rescue blade has also got a large ring, which prevents your thumb from slipping towards the blade....another good safety feature. The serrated edge of the blade is very sharp, and my knife has been through many a rescue, and remains very sharp. I also like

the bright colours the knives come in so that it helps to see the knife against dark surfaces at night.

REED: A very large machete

LEE: I use a Benchmade serrated and straight edge combination on my rescue harness.

And on my PFD a Gerber River Shorty again with a serrated and straight edge. I find the mixed blade combos to be best for rapid cutting.

GARY: The original version of the Smith & Wesson rescue knife (extrication) is probably the best so far and the slickest knife to operate, So slick in fact, I manage to cut myself the first time I used it. It had a silky smooth opening and closing, excellent quality blade and a spring-action integral centre punch. As far as water rescue knives are concerned most are either so top draw that this is where you'd keep them because you'd be too scared to use and lose them, or if you're wearing your agencies pfd, you would rather lose them because they're usually massive and poorly made, the final insult would be a blade that just bruises anything it touches instead of cutting it. [ED: thanks for the rant

JEZ: the Thompson scalpel a fine instrument for debriding necrotic tissue.

RICH: The Gerber Hinderer [ED: I wish you wouldn't rabbit on so much Rich]





oh and a lanyard eye, there isn't really much to set it apart

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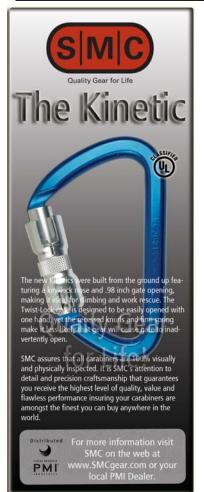
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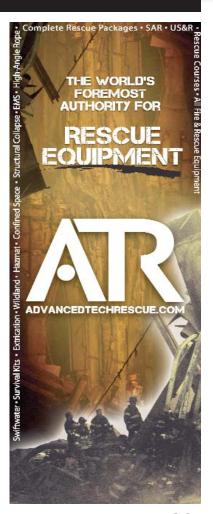
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MILITARY RESCUE (kind of)



"The reaches opened before us and closed behind, as if the forest had stepped leisurely across the water to bar the way for our return. We penetrated deeper and deeper into the heart of darkness"

Joseph Conrad

Shortly after the waterfall incident in the South Fork of the Tuolumne cataract/canyon mentioned on page 7 another event occurred that planted strong seeds, produced a heavy gush of nutrients into the nascent reputation of TCSAR and ultimately birthed Rescue3. There had long been rumors of military special operations taking place under the radar in Tuolumne County; tales of insane antics, witnessed by civilian extreme operators, seeming too "out there " to swallow: swimming class 5 drops, running 'unrunnable' sections of river and generally using Tuolumne County as an operational theater/locale for riverine 'ops' testing, in extreme conditions. As it turned out, what sounded like wild exaggeration, was bloody well true. Incredibly, it was this sort of death -defying risk-taking that allowed for Segerstrom and I, with the help of other TCSAR members, to develop the connections and earn a 'street cred' reputation sufficient to insert 'self rescue' into the lexicon of the Federal government.

A group of Navy Seals on maneuvers had made an attempt to steal a first descent of the South Fork Canyon by bypassing the upper section of the Heart of Darkness; which, no doubt, they had scouted and wisely determined was impassable even with their superhuman capabilities. Not to be thwarted, they concocted an alter-

nate route, circumventing the narrowest "heart" and instead, dropped like Ninjas into 'uber' pitch darkness, plummeting DIRECTLY down 3000 ft. of canyon, right off the HWY 120 turnout en route to Yosemite. Using the USFS marker at the scenic overlook: "Grand Canyon of the Tuolumne-Rim of the World" as their 'X marks the spot', they launched

their high flying water entry. Anyone with experience and an ounce of sense who hears this story, responds simply: "No, they DIDN'T! Well, yes, they DID! They aimed and dropped below the Heart core, vanishing under the cover of darkness into a pit of cliff, talus and rotten rock-just as a small Seal team would

They almost made it, but one operator fell, tumbling and catapulting himself down the last 400 ft. of rock into the river. He was severely injured and marooned, with the canyon too tight below the Heart for the team's own Navy Helo (out of Lemoore NAS) to hoist him. His teammates managed to reach him, pulled him out of the river and in true Seal form, continued on with their mission. Just for the recordand I'm not criticizing- these guys just kept on bookin' as Seals train in full-out virtual reality, as it must be to test 'ops' in live conditions. But in this case, they left a real

perform on "official" maneuvers.

mess for others to clean up, as unfortunately, they wrongly assumed their legendary Navy Helo crew, famous for plucking climbers off Yosemite walls, could swoop in and hoist their downed man out. Not this time. This socket was far too tight to risk, especially in total darkness. Daybreak would reveal just how NOT possible it really was.

It was time for the janitorial shift. After

> four long hours of insane, blind bushwack-

ing,canyoneering and scrambling, we found the stranded Seal. He was alone, exposed, head-injured and covered with deep abrasions over a

large portion of his body when two of us made it to him in the early morning. We spent the next several hours rehydrating him, picking debris out of his body, cleaning and keeping his deep gashes

hydrated. More team members followed our fixed lines, marking through a near impossible maze of loose talus, brush, canyon features and heat. When all were landed, we scouted the closest spot to attempt a helo-hoist, located about a quarter mile down canyon. It took all night to set a series of long traverses with stokes, several long lowerings down to the first open sky directly in the center of the river.

Exhausted and shaken we could now see clearly the exposure hid-

den by the cover of darkness. No words can express the joy and relief experienced watching this wounded Seal get lifted out of one the tightest and most frightening helo-hoists I've ever witnessed.

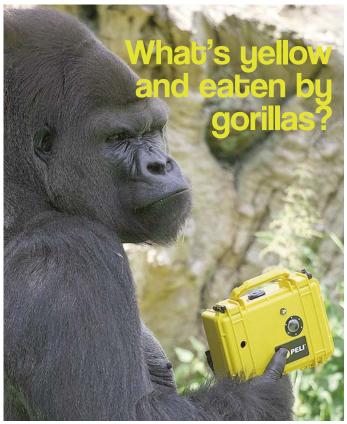
It took us the greater part of the next day to carefully negotiate a retreat back the same route in the light of day, the exposure now visible and threatening. How we covered it in 3 hours at night... was the "compassionate" heart of darkness.

This level of challenge was a wake up call to all those involved, as we realized a game changer: The rescuer's skill set must rise to a level beyond that of the 'extremists' you encounter. Those Navy Seals earned my respect by completing their epic mission in the dead of night but I realized it was at the cost of nearly losing one of their

TCSAR earned the Navy's respect that night with the Seals' legendary team leader suggesting that we teach him the skills necessary to pull off the type of rescue we had accomplished. This was the heavy sack of karmic seed that got lifted ,traversed, and lowered down canyon and hoisted by a twin jet Huey. This curve of learning and teaching was the birth of Rescue3.

The leader of that Seal team, Gary Kibbee, went on to become one of the earliest and very best Rescue3 instructors...version 1.0. The Seals found the heart below the heart of darkness. Seals now know how to rescue their own there.

PRODUCTS - Gorilla Food





{ED: Not our normal rescue feature but you nvere know what you might run into on the streets these days}

e always knew Peli Protector Cases were tough equipment cases built to withstand the harshest handling but they have now proved to be ...Gorilla proof!

The Peli 1120 case was recently used by the Durrell Wildlife Conservation Trust in Jersey as an enrichment device for their Silverback Gorilla, Ya Kwanza. The 1120 Peli case was customised to hold a small, HD camera to allow the Silverback to film himself. It was covered in oats and honey and also contained some raisins which challenged Ya Kwanza to investigate the case,

encouraging mental stimulation. The case was subjected to everything a 200kg+ Gorilla can do to it - he shook it, he threw it and he gnawed at it to get the raisins out.

The film, shows the case being thrown around without any damage to the camera inside. The HD camera filmed some remarkable and unusual footage up close and personal.

Andrew Scott-Miller, responsible for Events and Marketing at Durrell Wildlife Conservation Trust, commented "Our gorilla keeper came up with this idea and it clearly required an indestructible box and Peli's reputation of indestructible equipment was exactly what we needed."







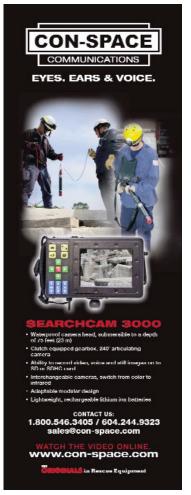
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MARLOW AERIS CLIMBING ROPE

It has come to our attention that there may be a potential quality issue with the splices in some batches of Marlow Aeris Climbing Rope.

It has been discovered that some ropes may have been inadequately spliced, thereby resulting in a potential safety suspect splice will be replaced free of charge immediately.

We stress that this is a precautionary exercise, that not all batched of Aeris rope are affected and that this quality issue only potentially affects the batches detailed. No other spliced Marlow products

Part Number	Description	Batch numbers
WKD800	AERIS 11mm BLUE/YELL SPLICE OE 25mH	7935, 9292, 11098
WKD801	AERIS 11mm BLUE/YELL SPLICE OE 35mH	6348, 7943
WKD802	AERIS 11mm BLUE/YELL SPLICE OE 45mH	6349
WKD811	AERIS 11mm RED/YELL SPLICE OE 35mH	6352, 7934, 8869, 9293 12292
WKD812	AERIS 11mm RED/YELL SPLICE OE 45mH	6353, 7937, 8937, 8174



issue. The part numbers and batches that are potentially affected are detailed below and in the first instance we recommend that any ropes that you may still have in stock be inspected immediately.

We also recommend that any Aeris ropes sold to your customers that are still in active use also be returned for batch number confirmation and inspection or replacement where necessary

Ropes that pass our factory inspection will be returned and any rope found to have a including Gecko are affected. This issue only affects the splice, the rope itself is unaffected and can continue to be used.

We apologise for this issue but confirm that remedial action has been taken to ensure no such problem occurs again.

The parts and batches affect are:

MULTI-TOOL TESTS

Issue 61 saw a return to more conventional 'heavyweights' in both senses of the word. The Leatherman Supertool, Sog Paratool and Victorinox Swisstool X. The end results on the points awarded for these particular sets of tests was almost too close to call at 51,48 and 50 respectively and there's a fair chance that once we incoprporate the more more expansive tests of the final showdown this point spread could change.

Leatherman listed their new pliers head as two tools - needle point and regular pliers which we thought was over-egging things a bit since the majority of multitools could claim the same distinctions they are listed as 18 rather than the officially quoted 19 tools. The removeable wire cutted embedded in the recesses of the jaw is a great idea but we can't help feeling that if it had been a Victorinox innovation they would have secreted away a star tool to change the blades somewhere on the multitool's spacious body.

Even now, after loads of use and abuse I look at the Victorinox and marvel at its shiny good looks, it's like a great looking woman than annoyingly still looks great first thing in the morning when the rest of us look like we've been sleeping rough in the neighbours guinea pig compound. What, you haven't done that?For the purposes of this magazine's audience we should have opted for the RS version rather than the X purely because it has the curved 'rescue' cutter instead of the scissors but it wouldn't have provided any more points in the relatively broadspectrum test criterion that we are using. If, in the finals we have a test for cutting yourself out of a car's seat belt and one for trimming a bandage or plaster there still wouldn't be any difference in the points between a web cutter and scissors. We'll have to think carefully about that. We wrote that the Leatherman Supertool 300 deserved more points than the other two because it has such a good, dedicated lanyard eye that can even take a small accessory carabiner. The SoG wasn't bad but nowehere near as good and the Victorinox was a definite afterthought - that's if we've even got it right as the only place we could identify to tie into is the corkscrew acessory eye halfway down the body - so they all got a point each but a fairer system would have awarded Leatherman an extra point. The SOG is a quirky tool, some of it looks like an afterthought, a reaction to discovering that it was bleedin' uncomfortable to apply pressure during a cut or squeeze of the pliers. But to their credit, they did at least tackle the problem and achieve a result even if it's a little cumbersome. We were particularly pleased to see the cogs covered in the latest variant of the Paratool because they really were a pain in the palm when applying pushing pressure. We like the V-cutter and the bit-driver and the compound advantage and the option of wide opening jaws and although it may not be as flash as the other two it's like a scruffy special forces operator - unorthodox but get's the job done. Still a shame about the knife blade

Two things our tests have not yet addressed (until the final) is the issue of being able to access blades while the tool is closed and one handed opening. That's because we're not entirely sure whether these two features should attract extra points or simply be listed as 'features' or 'functions'. We think that on the whole being able to access blades while the pliers are closed is a good thing but some argue that the tool stays cleaners and is 'safer' if tools are protected on the inside. And one-handed opening will be great, if not essential in some circumstances but by it's very nature implies that the tool is a little 'floppy/sloppy' in its dployment of both the pliers and generally tools. Personal preference probably so perhaps we'll simply mention these in future tables without awarding points and then make a decsion for the final showdown as to whether points should be allocated. If you have any views on this feel free to email us.

though. We mentioned that it was disappointingly small and not as robust as the

rest of the tool and that it bent in the hand. By that we didn't mean that it literally

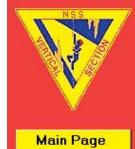
bent into a permanent disfigurement that would forever be locked outside of the

tool's body but that it would flex it hand unlike the other two tools' blades. It

should be a more manly blade we think.

ON THE WEB

The National Speleology Society of North America has very kindly opened up its considerable Newsletter resource the Nylon Highway up to non-NSS members. There are many, many interesting, useful, essential and occasionally downiright daft articles here and anyone with an interest in either caves, cave rescue or rope rescue and rigging should take a good long look and make use of this generous gesture. go to www.caves.org/section/vertical/nylhi.html



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Nylon Highway

The Nylon Highway is the official publication of the Vertical Section. Everyone can view the on-line issues by clicking on the link beneath the indexes below.

Now Out-of-Print Back Issues available as PDF's. (see below)

The following sample article shows how the articles within the Nylon Highway are displayed on-line.

The CMI Expedition Ascender by Jay Kennedy

NOTE: The VS Board decided to open access to all available electronic issues to everyone. We hope you find the information valuable and enjoyable.

Access to Nylon Highway On-Line: (Issues #43 - #56).

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- Index of Issues # 1 #15
- Index of Issues #16 #30
- Index of Issues #31 #42
- Index of Issues #43 #56 (on-line)

ARCTIC-BASED EMERGENCY TOW-ING SYSTEM TEST SUCCESSFUL

RED DOG MINE PORTSITE, Alaska – The Coast Guard, industry resources and the Alaska National Guard successfully tested the emergency towing system three miles offshore of the Red Dog Mine Portsite in the Chuckchi Sea 83 miles north of Kotzebue Tuesday.

"This was a successful exercise for all involved and we owe a huge debt of gratitude to the Red Dog Mine and FOSS, without their resources and professionalism we would not have accomplished this effort," said Lt. Cmdr. Maeve Keogh, District Seventeen response management. "The mine put us up and made their equipment available to us and when the Air National Guard helicopter crew had to abort the FOSS tug stepped in to transport the ETS before towing the SPAR."

The exercise was originally designed to use an Air National Guard helicopter to transport the ETS from the portsite to the 225-foot Kodiak-based Coast Guard Cutter SPAR. The aircrew arrived Tuesday morning but on further inspection of the ETS, it's sling-load net and the available space aboard the SPAR for the ETS to be dropped the ANG pilots chose to abort their portion of the training exercise for safety.

"The aircrew was more than willing to assist us but once they had a chance to compare their equipment and procedures to that of the Coast Guard's they determined that it was not advisable for them to proceed due to safety," said Keogh. "We do anticipate more joint work with them in the future and one-on-one familiarization with our gear and there's. It was a good learning opportunity for all of us and we know where to go from here to make it work in the future."

With in 30 minutes of the tug's arrival the SPAR crew had readied the ETS and deployed the messenger line, which was picked up by the crew of the 126-foot Seattle-

based Sidney Foss. The tug crew hauled the messenger and the thimble-end of the towing hawser aboard the tug and had the SPAR in tow making about 7 mph 10 minutes later. The whole exercise took about two hours to conduct.

The emergency towing system consists of a towing hawser made from synthetic line that floats with thimble attachment, chafing gear, shackle, messenger line, buoys and sea drogue and can be deployed to a disabled vessel by helicopter sling-load or hoisted aboard from a tug or other vessel of opportunity. The majority of the systems are designed to tow a vessel 50,000 dwt or larger. One system in Unalaska is used for 50,000 dwt or less.

The ETS was used successfully to tow the 738-foot cargo vessel Golden Seas when they lost propulsion in the North Pacific December 2010. The tug Tor Viking II, a vessel of opportunity in the region at the time, conducted the tow delivering the vessel safety to Dutch Harbor for repairs.

The ETS was developed as a tool to assist responders in Alaska following the grounding of the 738-foot cargo vessel Selendang Ayu December 2004 near Unalaska. Several assets had attempted to tow the ship and prevent it from grounding but the proper towing gear was not available and the line used snapped. The Department of Environmental Conservation, Coast Guard, City of Unalaska and the industry successfully tested the ETS in Dutch Harbor summer 2007. There are currently five ETSs stationed around Alaska with more planned for the future.

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BADGES - USCG



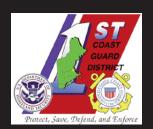
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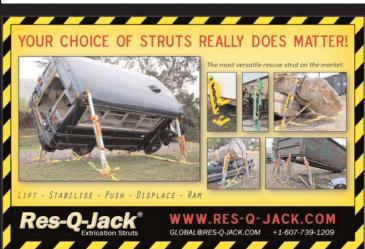
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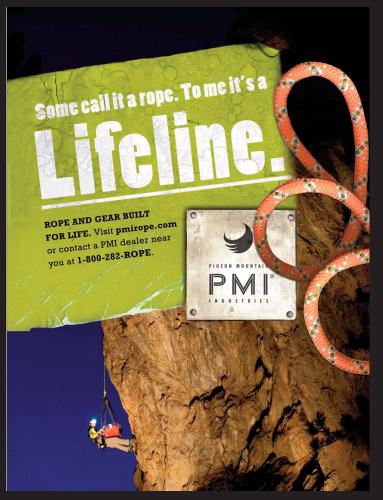


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WHAT'S on THE COVER?

61 Snr FF Changsu Yang of BusanFire Dept, S. Korea 60 Firefighter Wayne Rowe of Queensland USAR TF1 59 HM Coastguard's head of Technical Rescue (ex-TRU & arb officer) Rich Hackwell 58 A Tactical Urban Climbing Officer of the Dutch Police **57** US Coastguard Rescue Swimmer

56 Canadian Ski patroller from Silver Star Resort, BC 55 Paramedic Ambulance of Ontario, Canada

54 SWORDS Remote Operated Vehicle

53 Kawasaki RWC (PWC), one of K38's fleet in California

52 Arizona Votex tripod in use in AZ by Maryland **Firefighter**

51 TRm's own labchimp Gary Cross (ex-TRU) in mud rescue 50 Canada Task Force 3 Heavy Rescue

49 A Canadian Police Bell 212 helicopter

48 NPS Ranger at Big South Fork Tennessee

47 NPS Ranger in Yosemite undertakes a waterfall

46 A modifed Nissan Patrol of Icelandic SAR team

45 SAR Nederland personnel in Pakistan earthquake

44 San Fransisco Fire Dept Dive Rescue team members

43 UK Swiftwater rescue swimmer as 'livebait'

42 SouthWest Ambulance Service(UK) paramedic in

41 ESU Police Officers at 'Ground Zero', New York 40 Oz Surf Rescue - Palm Beach, North Shore Sydney 39 Los Angeles FD swiftwater rescuer on highline

38 Oklahoma Fire Dept using

Holmatro Powershores 37 Confined space rescuer from Sound Beach FD (CT) 36 Denmark's Copenhagen Airport's Fast Rescue Craft 35 TRm's Andy Clark at Potters Bar rail crash (UK) 34 Palastinian Red Crescent paramedic in Rafah, Gaza 33 TRU's Barry Smith on airline ascending sewer pipe 32 South African Johann Du-Toit in shored trench 31 Gambian Firefighters lower colleague into a well 30 paramedic Rob Keating deals with a GSW Head. 29 Cape Town Metro Paramedic Abseils Table Mnt 28 Lancashire Fire Officer (UK) cutting vehicle 27 TRU's Ade Scott on airline in silo conveyor

26 London Police dive team using SRT Ozpod

25 NSW firefighters in the Warragamba Dam, (Oz)

24 TRU's Dr Rob Dawes intubates a casualty

23 TRm's review of how cutters tackle 6 new Jaguar cars 22 Paramedic attends a mass casualty incident in South Africa

21 TRU's Kerry Charlton descends in full hazmat with

20 Swiftwater rescuer using a Carlson Board (or similar?) 19 TRU's Kerry Charlton monitors air in shored con-

18 Turkish Mountain Rescue descend with stretcher 17 West Midlands Ambulance SCAT UK (now HART)

16 Paramedic rescue swimmer on LifePac helicopter Oz 15 NSW Police Rescue const. Bill Morris in con-space

14 NPS ranger from Grand Canyon National Park 13 Oz Rescue swimmer of

Offshore 2 surf rescue in

12 National Rescue Service of Denmark using shoring struts

11 Police Rescue Squad officers Bill and Norm using

10 Hampshire Ambulance paramedic uses Combitube 9 Yorkshire firefighter deploys rescue path on ice 8 Staffordshire Fire Service rope rescue team member 7 Poole Lifeguard (Dorset UK) on surf rescue board 6 South Wales cave rescue raising a cocoon stretcher 5 The North Sea's mobile rescue rig and Puma helo

4 A new generation of helos, the NOTAR MD Explorer

3 NSW Ambulance bike with forest fire smoke in background

2 Wiltshire firefighter uses Cutters Edge saw to cut entry

1 TRU's Les Agate (now a senior Fire Service Officer) abseils to glory

COVER ORIGINS					
* 34	8	Australia			
*	4	Canada			
+	1	Denmark			
	1	Gambia			
	1	Gaza Strip			
-	1	Iceland			
	2	Netherlands			
#3\$139 ——	1	Saudi Arabia			
	5	South Africa			
11011	1	South Korea			
C*	1	Turkey			
	22	UK			
	10	USA			





Rope & Water Rescue

Petzl, FOIN, Lyon, Beal, Ferno, Skedco, Maillon, Spelean www.lyon.co.uk