



# The Dirt Digger



## Welcome...

**t**o the December 2002 issue of the Dirt Digger. This issue is packed with news, just to prove we are keeping busy in the leadup to Christmas!

In keeping with tradition, we announce in this issue our Distributor of the Year. Also in keeping with tradition, the winner is the crew from Queensland - Ian Cameron of Technical Solutions (distributor), Peter Taynton, and Noel Burton (training and support).

It is also our pleasure to notify you that we have welcomed two new members of the 12D team. Kevin McConell of Lukemine Enterprises is our new 12d Model distributor in Fiji and surrounding areas. Also, in January, Greg Newman will be commencing work in NSW/ACT alongside Tony Ingold of 'Extra Dimension Solutions' (formerly Lakeshead Services) doing sales, support and training for 12d Model.

We also outline for you our phenomenal growth in New Zealand. Perhaps this time next year we will have a change of tune with regards to Distributor of the Year - stay tuned!

12d Model has continued to be used enthusiastically by education groups, including Otago University in New Zealand and the Canberra Institute of Technology. We take this as positive feedback to our claim that 12d Model is "the product of the future".

We have also included a feature about how 12d Model was recently used in Bunbury for a trotting complex upgrade - attesting to the versatility of 12d for a variety of projects!

Having bombarded you with our news in this exciting issue of the Dirt Digger, we must also extend to you and your family a Merry Christmas and a Happy New Year from all the staff at 12D Solutions!

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## Version 6 is here!

**W**e are pleased to announce that the latest version of 12d Model, version 6, has been released.

Copies are being shipped as we speak to those on maintenance. There are many upgrades for us to take care of and this will take some time, but please be assured that if you are on maintenance, your copy of the latest version is on its way, and we think it's well worth the wait!

## Distributor of the Year

**W**e almost hate to say it, but that trio from Queensland has done it yet again! Ian Cameron of Technical Solutions is the 12D Solutions Distributor of the Year for the third year in a row! This successful run was also made possible by the customer training and technical support supplied by Peter Taynton and Noel Burton.

Ian's sales record topped our charts for the 2002 financial year, and his service throughout Queensland continued to be excellent.

Peter's wonderful customer support and training courses continued this year and were appreciated by many.

Noel's demonstrations, training, and support in the surveying area continued to be marvellous throughout 2002.

Terrific Trio, you're a credit to us!

## New Distributor in Fiji

**W**e are excited to welcome to the 12D family our newest distributor. Lukemine Enterprises in Fiji, headed by Kevin McConell, will now be the 12d Model distributor for Fiji and surrounding areas. The first set of 12d Model training courses, by Noel Burton, have already been held in Fiji with more to come in the new year. For more information, please contact Kevin on [lukemine@is.com.fj](mailto:lukemine@is.com.fj). Thank you, Kevin, for joining us! We look forward to working with you.



## Greg Newman joins the 12D team in NSW

Starting in early January, Greg Newman will be joining Tony Ingold of Lakeshead Services in sales, support and training for 12d Model in NSW and the ACT. At the same time Lakeshead Services will begin trading under the banner of 'Extra Dimension Solutions'. Tony says that the new trading name better reflects the activities of the company as a provider of sales advice, technical support, and training for 12d Model.

Greg is an engineering surveyor with 15 years experience. His earlier career was spent working with cadastral Surveyors doing engineering set out and preparing ident surveys, DPs, and detail surveys. In 1996 Greg moved into engineering surveying, usually working for the contractor on road works, bulk earth works, and mining projects.

These projects have included the M2, the Gold Coast Motorway, the Pacific Highway Upgrade - Raymond Terrace and Coolongolook, and Vickery Mine rehabilitation. His most recent work has been with Thiess on the Karuah Bypass project (part of the Pacific Highway Upgrade), where extensive use has been made of 12d Model with GPS for data collection, and machine control systems.



## New Zealand surges ahead

Lane Irwin from 12d NZ has been actively criss-crossing New Zealand, upgrading SDR Map users and welcoming new customers to 12d Model. Consequently, the number of customers in New Zealand has more than doubled! We expect 12d NZ to be a strong contender for the next 'Distributor of the Year'.

12d NZ and Beta testers in NZ have been working with 12d Solutions to produce an excellent graphical Traverse Spreadsheet option, tailored for NZ conditions.

We are also working with the NZ lands and titles authority, LINZ, to produce LINZ-XML files from 12d Model to load into the new automated land titles and cadastral system, Land Online, when it is released in 2003.

## New education groups

The Survey school at Otago University in the south island of New Zealand now has a fully functional laboratory of 40 workstations running 12d Model and a number of

courses have already been given. The first group was fourth year students who completed survey and design courses as part of Survey Software Analysis. A further 120 students of second and third year levels used 12d Model in the "Cadastral Studies (Land Surveying)" course. Some of the students have already joined the work force as 12d Model operators.

The Canberra Institute of Technology (CIT) has also utilised 12d Model in its courses this year. Over 50 students from the Bruce Campus completed Civil Computer Applications and/or Road Design courses using 12d Model. Future courses are currently being planned.

Stay tuned for news about further educational institutes jumping aboard the 12d bandwagon!

## Fulfilling wishes with 12d Model Version 6

12d Model Version 6 is currently being distributed, just in time for Christmas, and it incorporates many important wishes from our users.

Plot parameters are a powerful feature of 12d Model and, for those who master them, save hours of tedious drafting time, especially if you need to provide plots in a variety of formats. Until now a text editor and one hundred pages of documentation were needed to tame plot parameters. Not surprisingly our

number-one customer wish was to be able to interactively create and modify plot parameters. The good news is that in V6, the interactive PPF editor and plotter is operational for plan, long section and cross section plots. The interactive editor for drainage, sewer, and pipeline plots will be available in the new year.

Another popular wish was to easily create more realistic scenes using the 12d model perspective view - the emphasis being on "easily". In V6, the Visualisation module has been released to satisfy this demand. The new module includes raster (photo) drapes onto a terrain, applying textures to surfaces and the rendering of super string extrusions to create realistic objects of almost anything. Anyone who has used or seen the Visualisation module agrees that it is certainly easy to use.

The ability to do more drafting inside 12d Model has been another common wish. Again, 12d Model has responded to this wish with new CAD options in V6. We expect that this will make 12d Model even more productive and, for many customers, replace the need for a separate CAD program.

## Bunbury Trotting Complex Upgrade

The \$1.36 million redevelopment of the Bunbury Trotting Complex in Western Australia was recently completed by Thompson McRobert Edgeloe (TME). TME is a small multidisciplinary consultancy based in the south-west of Western Australia. They specialise in Land Development and Urban Infrastructure and more recently have entered into the design of harness racing tracks.

With the completion of this facility, Bunbury now has a harness racing track to rival any in Australia, a track that is technically the fastest track in Australia and ranks with the best in the world.

This project was undertaken with 'unbridled' passion by TME Director of Engineering Wayne Edgeloe, and the result is one of which the company and the Bunbury Trotting Club are extremely proud.

The feedback on the track from users is best reflected in the comments from leading Bunbury trainer Andrew DeCampo when he stated to the press, "It's brilliant, mate, absolutely brilliant!"

The facility upgrade involved a total rebuild of the existing 800-metre track and creation of a new World Class 960 Metre track. In conjunction with the upgrade, the opportunity was taken to completely

rationalise the stable complex and bring together the previously scattered facilities around the track.

New stables, washdown bays, urinals, swab rooms, parade area, public viewing areas, and judges/TV broadcast/stewards facilities were built. The focus of the final development was not only to provide new facilities but also to ensure the spectacle for the public was maximised and to ensure the long-term survival of the harness racing industry in the Region.

The previous sub-standard lighting was also increased five-fold to ensure that TV standard broadcasts could be achieved. The power supply to the site and previous sub-standard internal electrical systems were also upgraded and reinforced.

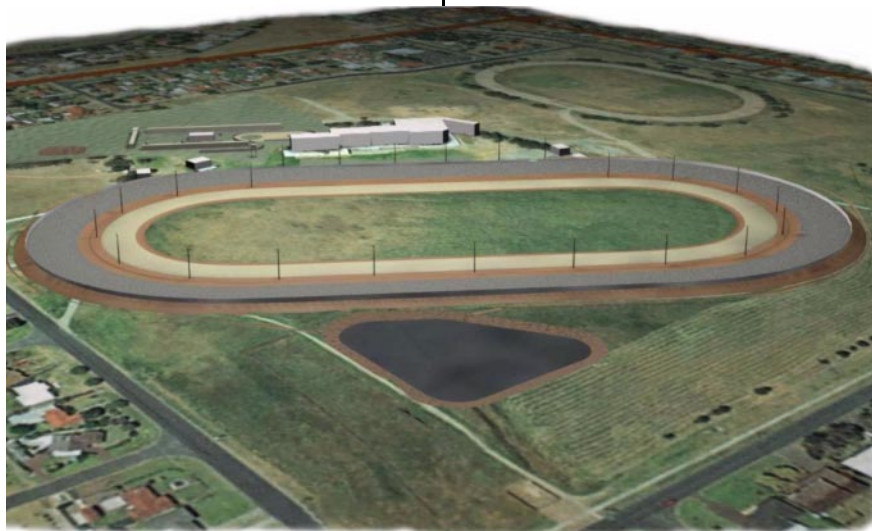


With this new world-class track, the Bunbury Club are now hopeful of gaining the rights to hold the second set of the heats of the 2004 Inter-Dominions, the peak harness racing event in Australia and New Zealand. This would bring an international focus on the local community and would be a boon for harness racing in the South West.

Prior to commencing the design of the new track, TME Director Wayne Edgeloe undertook extensive research that included inspections of key tracks in Victoria. The final design solution developed is one on which fair and even racing is possible with the added benefit of fast times.

The camber/ radius/ spiral curve/ transition combinations have also combined to produce a track which is optimised to reduce the stress experienced by horses racing on the track.

The project was fully modelled using 12d Model, enabling the complex combinations of geometry in the project to be readily optimised. The digital model output from 12d was also then given to the contractor to enable the construction to the 5mm tolerance on the finished surface.



The digital model from 12d was also exported to 3D Studio Viz to construct digital images and to produce a fully rendered digital movie of the trotting complex. Transfer between the models was readily achieved and enabled a high quality presentation to be produced in a very short time.

Since completion of this project, TME has been asked to investigate a new harness racing facility for York and an upgrade of the current facilities at Byford Trotting Complex. TME has also prepared concept plans for the Western Australian Trotting Association for the possible expansion of the Gloucester Park Facility in Perth from an 800-metre track to 960 metres.

TME has also recently been engaged by Harness Racing Victoria to design and oversee the construction of a new world class 1000 metre track at Terang in regional Victoria. The project was designed and modelled in 12d and construction began in October 2002 with completion expected by March 2003.



## Welcome aboard

*Sorry, but due to lack of space, many of our new licences/ additions must be left until the next Dirt Digger.*

Abigroup – Qld  
 Acor Consultants Pty Ltd – NSW  
 Airport Authority of Thailand – Thailand  
 Alex Gutkin Engineering – Vic  
 Ascension Surveyors Ltd – NZ  
 Astec Survey Pte Ltd - Singapore  
 Baseline Consulting – Qld  
 Basilico – USA  
 Beca Carter Hollings and Ferner Ltd – NZ  
 BHBB M5 Joint Venture – NSW  
 Bill Guy and Partners – NSW  
 Black and Veatch – USA  
 Blackcreek Engineering Surveys – NSW  
 BMD Group – Qld  
 BNK Konsultant Sdn Bhd – Malaysia  
 Bonacci Rickard – NSW  
 Bornhorst & Ward - Qld  
 Brisbane City Works – Qld  
 Buckton Lysenko – NSW  
 Bundaberg City Council – Qld  
 Burchill Partners Pty Ltd – Qld  
 Buro Happold – UK  
 Cadd Surveys – Seychelles  
 Caloundra City Council - Qld  
 Cardno MBK – Gold Coast  
 Cato Bolam Consultants Ltd – NZ  
 Central Electricity Board – Mauritius  
 Charters Towers City Council – Qld  
 Christchurch City Council – NZ  
 City of Greater Shepparton – Vic  
 Civcon Contracting – Qld  
 Clark Surveyors Ltd – NZ  
 CLC Consulting Group Ltd – NZ  
 Coffs Harbour City Council - NSW  
 Connell Wagner – NSW  
 Coomes – Vic  
 Co-operative Bulk Handling – WA  
 Cutriss Consultants Ltd – NZ  
 David Ayris – Qld  
 Department of Health – Bhutan  
 Department of Lands Planning and Survey – Nigeria  
 Dimension Surveyors Ltd – NZ  
 District Council of Yankalilla - SA  
 DM Gerloff and Associates Pty Ltd – WA  
 Dubai Lands Department – UAE  
 Dubbo City Council – NSW  
 Earth Tech Engineering – Vic  
 Easdale Surveyors Ltd – NZ  
 Engineering SetOut – NSW  
 Environment Agency Wallingford - UK  
 Environment Canterbury – NZ  
 Gateway Surveys – Qld  
 GB Earthmoving – Qld  
 GHD – ACT  
 Glenn Allen – NT  
 Grogan Richards – Vic  
 Hadley Meldrum Consultants – NZ  
 Halpern Glick Maunsell - WA  
 Hatch – NSW  
 Helensburgh Coal – NSW  
 Hyundai Engineering & Construction Co Ltd - SNG  
 John Craven & Associates – NZ  
 Magos Enterprises – NSW  
 Maryborough City Council – Qld  
 Maunsell - Vic  
 Millar Merrigan – Vic  
 Mineral Deposits Ltd - NSW  
 Monmet Engineering Co – Mongolia  
 Ove Arup – Vic  
 Pacific Survey Teams – NSW

Parsons Brinckerhoff – NSW, Qld  
 Pells Sullivan Meynink – NSW  
 Peter Smidt Surveyors – NZ  
 Quantm Limited – USA  
 Queensland Main Roads (Survey & Design) – Cairns, RTCS SE  
 Ralph Williams Consulting Engineers - NSW  
 RE Lendrum & Associates – NZ  
 RJ and MI Sampson – Qld  
 Ryde City Council – NSW  
 Schlencker Surveying – Qld  
 Shimizu Corp – Bangladesh  
 Sinclair Knight Merz – Brisbane  
 SMEC Cooma - NSW  
 Staig & Smith Ltd – NZ  
 Sutherland Shire Council - NSW  
 Sydney Survey Company – NSW  
 The Barossa Council – SA  
 The TGM Group - Vic  
 Thiess Pty Ltd – NSW  
 Tomlinson & Carruthers Surveyors Ltd – NZ  
 Tonkin & Taylor – NZ  
 Tony Forde – SA  
 Toowoomba City Council - Qld  
 Townsville City Council – Qld  
 Transport Construction Design Enterprise – Ethiopia  
 Truebridge Callender Beach Ltd – NZ  
 TYL Perunding – Malaysia  
 United Water – SA  
 Universitas Negri Malang – Malaysia  
 University of Newcastle upon Tyne - UK  
 Water Technology Pty Ltd – Vic  
 Watsons – Vic  
 Wollongong City Council - NSW  
 Wood & Partners – NZ  
 Worley Kalgoorlie - WA  
 WP Brown – Qld  
 Young Consulting Engineers - NSW

## Top sales & support

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D Solutions is committed to providing not only the best surveying/civil engineering software on the market, but also the best service and support.

Expert sales support is available from:

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**Maria Bernhagen** at Critical Image in WA  
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**Steve Crossley** at SCS Software in Vic  
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**Ian Cameron** at Technical Solutions in Qld  
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**Michael Brehmer** at 3D Measurement Solutions in SA  
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**Lane Irwin** at 12d NZ in NZ  
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**Anthony Kuch** at XP Software in Canada  
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**Marina Bouchot** at XP Software in USA  
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**Kevin McConell** at Lukemine Enterprises in Fiji  
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*For further details on our sales and support representatives, see our website [www.12d.com](http://www.12d.com)*