

FIA NEWSLETTER

Published by the FIBROPTIC INDUSTRY ASSOCIATION Issue No.55 January/February 2000

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The FIA is a Company Limited by Guarantee

FIA Launches Series of Quarterly Breakfast Seminars

FIA Commercial Director, Andrew Watson, has announced that details are being finalised on a programme of short breakfast seminars during the coming year.

The idea behind this latest FIA initiative is to enable members to both meet and learn from respected experts in the networking industry while minimising the impact on their time. The venue has been carefully selected to make it reasonably accessible to many members and a good starting point from which to continue a day's business.

The subjects will all address key topic areas and will include:

- Designing to support 10GB/s networks, including the latest moves by the IEEE and Gigabit Ethernet
- Testing solutions for new fibre optic cables, networks and connectors
- Update on training trends in the industry and the growth of the RCCD certificate
- Fibre channel - its impact on networks, trends and opportunities in the UK.



Cont. over

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The proposed dates are:

Wednesday March 22
Wednesday June 21
Wednesday September 20
Wednesday December 6.

The venue is the prestigious Bisham Abbey, Marlow - the site of the England Football Team's training grounds.

Put these dates in the diary now!!!

AND...

to keep costs down, we are asking if any member company would like to support these events through the medium of sponsorship.

In return, the company logo would be displayed on all promotional material and information on the products and services offered by the sponsors will be made available at the events. In addition, further promotion will be carried in the *Newsletter*. A figure of around £1,000 for each event is envisaged.

If you are interested, please contact Andrew Watson via email at: awatson9@mmm.com

Beyond the Gigabit Barrier

By FIA Technical Director
Mike Gilmore

LAN systems are finally entering the world of optical fibre only solutions. With Gigabit Ethernet backbone equipment starting to flood the market, the IEEE has not rested on its laurels - IEEE802.3ae, or 10Gb/s Ethernet, is expected to be off the drawing board and into customers' networks by the end of next year.

It is early days yet and it not clear how the solutions will be implemented but the objectives are clear. It will be a switched network designed for delivery of star-topology cabling. It will support both straight 10Gb/s Ethernet and 9.584640Gb/s SONET applications - thereby creating a direct link between the LAN and WAN solutions being employed today.

Strong Commitment

The delivery systems are not clearly defined and there are a number of proposals on the table. One thing is certain though: the commitment to first window

operation, allowing the use of low cost device technologies such as VCSELs is strong.

This means further pressure behind the move away from lower bandwidth optical fibres and 62.5/125 products in particular. 50/125 products with 850nm bandwidths of 500MHz.km minimum will be a minimum requirement and the latest 2200MHz.km product options may become the recommended option for distances of even 100m. Single-mode technology, as usual, is going to be present for the longer routes (in excess of 300m).



Mike Gilmore

Options

The transmission options under consideration include:

- the use of legacy multi-mode fibres @ 850nm employing:
 - VCSELs on a single transmitting fibre (65m)
 - parallel optics (300m using four transmitting fibres)
 - coding techniques similar to those employed for copper networks to reduce the frequency content of the high bit rate data train (100m)
- the use of legacy multi-mode fibres @ 1300nm using:
 - LASERS (100m)
 - wide wavelength division multiplexing (300m)
- the use of 2200MHz.km (@ 850nm) optical fibre with VCSELs (300m)
- the use of legacy single-mode optical fibre providing ranges from 300 metres to 40000 metres.

This topic and its background relative to the changes in design approach for optical fibre cabling infrastructures will be covered at the **FIA Breakfast Seminar** at Bisham Abbey on March 22nd 2000.

Support Guide

The topic is also the driving force behind the new *LAN Support Guide* which is currently being prepared by the Technical Directorate of the FIA.

If you feel that you need to know more, then get along to the seminar (contact the FIA Secretariat to book your place) or get involved in the development of the LAN Support Guide by contacting the FIA Technical Director via email at: Mike.Gilmore@BTInternet.com

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The *Melting Pot* delivers the goods on Cat. 5e, Cat. 6, Cat. 7 and a whole raft of optical fibre issues

The next ISO/IEC JTC1 SC25 WG3 meeting takes place in Sydney in February. Mike Gilmore, FIA Technical Director, is attending the meeting on behalf of the FIA and is also representing the European standards group CENELEC.

When asked whether Sydney will produce the long awaited specifications for the latest copper cabling, Mike said: "Cat. 5e has been accepted in the United States and that will form the basis of Cat. 5 (2001) at European and international level – that leaves us with Cat.6 and Cat. 7. CENELEC wants to publish early drafts of its next cabling design standard this year so we have to assume that Cat.6 and Cat. 7 will be mature when we leave Sydney."

Fibre Shift

Interestingly, Mike also said that the focus of the meeting "may shift towards optical fibre" with discussions of the European proposals on optical fibre classes (which provide new levels of design rules) and the ongoing debate over connector choice - an issue which has again reared its ugly head.

Elaborating on the first point Mike said: "Together with my team of European experts, I have spent the past six months trying to formulate useful optical fibre planning guidance similar to that already present for copper cabling solutions. The benefit of this work to the FIA, and therefore to its members, will be significant if it is fully accepted internationally. It may even have an influence in future United States standards."

Following the highly successful series of previous events, Mike's company, The Cabling Partnership, will be running one of its Melting Pot series of seminars soon after his return. These are held at BSI House and are, indeed, so popular that for the first time two dates are being offered to relieve the congestion that occurred at the last event. Delegates can look forward to an interesting and, almost certainly, controversial, seminar with the usual mix of answers supplied and questions created.

If FIA members want to attend the Melting Pot seminars, the dates are **23rd and 28th March**.

Contact Mike Gilmore direct on 0113 232 3721 or via email at Mike.Gilmore@BTInternet.com

Standard Agreement to Liberalise Optical Fibre Connectors in the LAN?

According to a recent report in *Network News*, the long-running battle among cabling standards groups may be nearing an end following an agreement that could allow greater flexibility in fibre connectivity.

The report states that leading small-form fibre-optic connector manufacturers, such as Lucent and 3M, have won the right to have their connectors included in the proposal for the 568-B. 1 standard.

Modifications to the standard, which determines which connectors should be used in commercial and industrial premises, are designed to allow network designers and users more flexibility in choosing their own connectors. The standard committee said the proposal is based on growing demand for fibre networking in the LAN to be made easier and more affordable, and for the use of a variety of smaller, duplex connector interfaces.

A spokesman states that the proposal will provide reassurance for IT decision makers who are convinced that fibre makes sense, but are waiting for a standard before making the break from copper. It was also stated that fibre currently costs three to seven times more than copper but, by using small form factor connectors and compatible networking kits, fibre would only cost 12 to 18% more than copper.

FIA Technical Director Mike Gilmore, as a senior partner at The Cabling Partnership, is erroneously claimed by the publication to set the standards for European cabling. He does, however, chair the relevant UK and European standards committees and warns that the announcement is premature and should not be taken as a firm statement of future reality. "The standards change is only a proposal and not a done deal," he said. "The detail of the proposed

change, as I read it, is to recommend the continuing use of the SC-Duplex connector but to allow the use of other connectors. This is clearly aimed at the range of SFF (small form factor) connectors but it should be remembered that the SC-Duplex has undergone massive standardisation on behalf of the LAN Cabling standards to ensure inter-operability. Other connectors, whether standardised or not, are considered proprietary and inter-operability is not guaranteed. As a result, users will have to manage the

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consistency of the joints created i.e. a single manufacturer for the plug and socket at all interfaces."

Information note: Inter-operability is the delivery of a guaranteed optical performance whereas inter-mateability only guarantees physical fit. Basic standardisation of optical fibre connectors only guarantees inter-mateability.

Cabling community gets conference for networking



A new conference for cabling end users will be launched in April. Called the *Building Networks 2000 Conference*, it will confront the multitude of issues facing buyers and specifiers of communications infrastructures.

Organised by Nexus Media, the publishers of *Cabling World*, the event takes place at the Barbican Centre, London on 6th April 2000.

Underpinning the importance of the event, it has attracted the support of such high profile sponsors as Lucent Technologies, Molex Premise Networks, ITT Canon Network Systems & Services, 3M Telecom Systems, Alcatel Data Cables, Krone, the FIA and BICSI Europe.

A dedicated steering committee was established to deliver a conference programme which will prove authoritative and an invaluable business tool for a broad spectrum of end users.

"It is time to provide the industry with an event that educates companies about network infrastructure and

systems integration. These buying decisions need to be made in-house by those responsible for the systems in place," comments Paul Cave - Chairman of Conference committee.

The event will tackle such issues as cost of ownership, development drivers, managing existing resources, migration issues, planning, technology issues by using case studies and papers given by a high level mix of manufacturers, consultants and blue chip end users.

The sessions are broken down into various subject areas as follows:

Development Drivers - Future Fibre Technology - Technology/Strategy - Management - Future Technology

Keynote addresses will be given by senior figures in the industry and a series of technical workshops will also take place.

While further details will appear in our next issue, 8pp colour brochures about the event are now available from the secretariat. Please call or email Jane Morrison and she will be pleased to send you one.

For other information please contact Warren Edge - Conference Marketing Manager on Tel: 01322 660070, Fax: 01322 661257, e-mail: warrene@csi.com

Interested in the Indonesian Market?

Indonesia is currently implementing the first stage of regulatory change that will stimulate economic growth across the archipelago, broaden domestic access to telecommunications services and strengthen international relationships.

Now, the Indonesian International Telecommunication, Media and Information Technology (IITELMIT 2000) Exhibition offers companies a unique opportunity to present their products and services to key buyers from the Indonesian government and state-owned telecommunications and broadcast industries. There will also be a business-to-business forum dedicated to expanding exhibitors trade into new industries as well as focusing on the benefits of E-commerce.

Running from 27th June - 1st July, the IITELMIT 2000 Conference will bring together business leaders, governments and associations from around the world to address the development of Indonesia and Asia's Telecommunication, Media and IT sectors, as they position

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to provide globally competitive services. Indonesia's vast market potential and ongoing process of deregulation will provide a unique model for discussion of these issues. Technical Seminars will also be conducted during the event.

Please look at the event web site at www.ptrei.co.id/iitelmit or check on the latest national industry news at www.ptrei.co.id/iitelmit/news.html. Further information is available from:

Henry Sihombing Sales Executive E-mail: henry@ptrei.com

Guide to Forthcoming Shows and Conferences

Microsoft Free Technet Briefings Reading, Edinburgh, Towcester and London.
Information and registration via Microsoft.com/uk/technet

Tetra Market and Technology Developments London, IEE, 10th February
Call +44 (0)171 344 5471 for details

Fixed, Mobile, Voice and Data Convergence on an IP Platform Dusseldorf 22-23 February 2000
Conference on how to exploit the cost efficiency and application potential of FMC/IP to create the All Service Network.
Contact *Vision in Business* on +44 (0)171 839 8391 or check out the web site www.visibis.com

Terabit Networking Paris 22-23 February 2000
An international event which looks at the needs and applications for terabit speed, legacy systems, scalability, restoration and QoS, and digital wrappers.
Call *Stefan Nilsson, Vision in Business*, +44 (0)171 747 5419 Email: stefan@visibis1.demon.co.uk or check the web site: www.visibis.com

Optical Fibre Communication Baltimore, USA 5-10 March 2000
Call the *Optical Society of America* on +1 202 416 1907

Internetworking Amsterdam 28-30 March 2000
Call *Lan Masters* on +31 344 662150

Organising for e-Business Geneva 8-10 March 2000
Organised by the Giga Information Group and concentrates on the key organisational issues to unlock e-Business success.
For further details, call +44 (0)1923 354405, fax: +44 (0)1923 354408 Email: information@gigaweb.com Web: www.gigaweb.com/events

Building Networks - Conference 2000 London, 6 April 2000
SUPPORTED BY THE FIA Designed to service the

information needs of end users such as financial directors, IT/facilities managers and premises managers. Papers will be presented in two separate streams on such topics as Cost of Ownership; Development Drivers; Managing Existing Resources; Managing Projects; Migration Issues; Planning for the Short and Long Term Future; Technology - the Issues.
Contact +44 (0)1322 661257 for further details

World Telecommunications Congress/ISS 2000 Birmingham 7-12 May 2000
Call the *IEE* on +44 (0)171 344 5471

SUPERCOMM Atlanta, USA 4-8 June 2000
Call the *TIA* on +1 703 907 7700

Eurocable Conference Stuttgart 5-7 June 2000
Call *EC 2000* on +41 61 686 7711 for details

Networks and Optical Communications 6-9 June 2000
Call *NOC 2000* on +41 61 686 7711

CommunicAsia 2000 Singapore 6-9 June 2000
The 11th Asian International Information and Communication Technology Exhibition & Conference
Call *Vivienne Caisey* on +44 (0)171 486 1951 Fax: +44 (0)171 413 8211 Email: sing@montnbet.com

NetworkAsia 2000 Singapore 6-9 June 2000
The 5th Asian International Networking Exhibition/ Conference
Call *Vivienne Caisey* on +44 (0)171 486 1951 Fax: +44 (0)171 413 8211 Email: sing@montnbet.com

CableSat 2000 Singapore 6-9 June 2000
The 2nd Asian International Trade Showcase for Cable & Satellite Technology & Services
Call *Vivienne Caisey* on +44 (0)171 486 1951 Fax: +44 (0)171 413 8211

International Conference on Communications New Orleans 18-22 June 2000
Call the *IEEE* on +1 504 528 2553

Networks Telecom/Computer Telephony Expo NEC Birmingham 27-29 June 2000
Call *Miller Freeman* on +44 (0)20 8742 2828

European Conference on Optical Communications Hamburg 4-6 September 2000
Call *Nexus Media* on +44 (0)1322 660070

Network+Interop Atlanta USA 25-29 September 2000
Call *ZX Comdex* on +44 (0)1325 340222

TMA Exhibition and Conference Brighton 9-11 October 2000
Call *TMA Ventures* on +44 (0)1732 361000

Global Telecommunications Conference San Francisco 27 November - 16 December 2000
Call the *IEEE Communications Society* on +1 212 705 8941

'I think there is a world market for about five Computers' said Thomas Watson, Chairman of IBM, in 1952

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FORMER *DATA COMMUNICATIONS* EDITORS LAUNCH WEB SITE TARGETING OPTICAL NETWORKING

Two former executive magazine editors have joined forces to launch *Light Reading* - a free online information resource offering in-depth analysis of optical networking developments. The Web Site, www.lightreading.com/, tracks the optical technologies that are transforming the Internet, blowing away bandwidth bottlenecks, and drastically reducing delays.

"We're on the brink of a dramatic change, one that will lead to the convergence of telecommunications and TV and will create the infrastructure for a true digital economy," said Light Reading's US Editor Stephen Saunders. "Light Reading is the site to surf for anybody who wants the real scoop on this optical revolution."

Light Reading goes live 1st February and the site also includes a weekly email newsletter that will alert readers to breaking news, major technology developments, and promising startups. Subscriptions are now being accepted for the *Newsletter*; early registrants are automatically entered in a draw to win one of three Internet-enabled Palm Pilots.

The site's target readers include these industry players:

- Carriers that want to be first to market with next-generation Internet services
- Investors who want to put their money into the hottest Internet technologies
- Vendors that want to get a jump on the competition, scout-out optical startups, and take a first look at developments from the R&D labs

Light Reading is the brainchild of Stephen Saunders and Peter Heywood. Both worked together for the US-based *Data Communications* magazine, an award-winning business and technology publication that

folded last October. The two have more than 30 years combined experience in analysing networking technology and have been recognised repeatedly for editorial excellence with awards from the American Business Press and the Computer Press Association.

Data Communications' standards of editorial excellence will live on in *Light Reading*," says International Editor Peter Heywood who is International Editor. "There's a desperate need for better information on optical networking technologies, and we're going to deliver it-for free."

The two founders are building the initiative up from nothing as an online information resource, rather than as an extension of a print publication. Its Optical Oracle database, for example, will allow users to jump between product reviews, competitive analyses of vendors, network diagrams, tutorials on key technologies, and a glossary.

"The optical networking industry is moving at a blistering pace. There is simply too much going on every day. Light Reading brings the technology, the companies, and Wall Street together with one simple click," says Jim Jungjohann, telecom equipment analyst at CIBC World Markets Corp. (New York), a leading Wall Street investment company.

"It also further validates the explosion of interest in the optical networking market," said Doug Green, vice president of marketing for Chromatis Networks (Bethesda, MD).

When Light Reading goes live, it will include the following ground breaking articles:

- Optical Networking in Context: How It Will Revolutionize the Internet
- Why Some Technologies Are White Hot
- Which Vendors and Startups Are Leading the Charge
- Top 10: The Real Movers and Shakers in Optical Networking
- Competitive Analysis: Multi-service Access Platforms for the Metropolitan Market," featuring head-to-head comparisons of products from dozens of vendors, including many new startups.

For more information, please contact saunders@lightreading.com or heywood@lightreading.com

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WEB WATCH

As the internet, E-commerce and web site technology continue to grow undaunted, we will carry regular lists of interesting sites for both members and for those who develop and maintain their own web sites.

Don't forget, however, to use the official FIA web site www.fibreoptic.org.uk for lots of information, useful links and technology updates!!

Useful sites for small businesses:

www.hr-expert.com

Useful legal summary on new employment laws.

www.bird-online.co.uk

A great information centre from business events to books.

www.capitalstrategy.co.uk

The busy business person's guide to producing a successful business plan (£3.50). A basic site but useful if looking for information on financing SME's.

www.iop.org/iop/plansuccess/whois.html

Planning for success (CD £49.99).

Web Development & maintenance:

www.internet.com/sections/webdev.html

Useful daily updates on web site design and resources.

www.wpdfd.com

The site for learning the basics on web site design and resources.

www.gocsi.com

What a better way to find out about internet security issues than the world's leading membership organisation dedicated to network security.

Concerned that people cannot find your site? Try this address & learn more.

<http://submitit.bcentral.com>

www.netmag.co.uk/webuilder/default.asp

www.builder.com

Obtain 31 tips on how to promote your web site. In the builder search engine type 'promoting' and select 'web building.'

Out of a job? Then check out www.Jobworld.co.uk hosted by *Computing* or www.dotjobs.co.uk

Web sites are always changing - these were checked on 19th January. Help us build up the list and share your coolest sites with other members - details via email to: roy@attassoc.demon.co.uk

FIA Facilities

The FIA is managed by an elected Council under the Chairmanship of Mike Phillips from Fibre Optic Solutions. Any representative from a Corporate Member company may apply for election to the Council. The responsibilities of the Council Members are divided as follows:

INSTALLER ACTIVITIES Peter Thompsett (Ensign Communications) is responsible for Installer activities and is currently in the process of upgrading the FIA's "Approved Installer Scheme" which is designed to provide end users with a specified quality level of fibre optic installation

TRAINING Colin Snook from CableNet was formerly responsible for Training but was forced to resign due to pressure of work. He initiated the dual level "Approved Training Provider Scheme" designed to improve standards in Fibre Optic Installation Training

The FIA has recently completed a Training Booklet aimed at supporting training providers and held seminars on the sector

TEST & MEASUREMENT The Test & Measurement Industry is represented by Paul Bateson from Optical Test & Calibration. Over the '98 - '99 period, he has activated a programme designed to raise the visibility of Test & Measurement resources to membership and potential customers.

PASSIVE COMPONENTS Laurent Amestoy from Molex Premise Networks has recently initiated a programme for that industry segment. He has opened up international links with the FIA's counterparts in France

TECHNICAL DIRECTORATE Mike Gilmore (The Cabling Partnership) is the FIA's Technical Director. He provides representation on many UK and European standards committees plus Standards information to members via the "FIA Standards Forum." By next year, he will have created a Recognised Qualifications Database and an Applications Support Guide.

COMMERCIAL ACTIVITIES Commercial activities are headed by Andrew Watson from 3M who is responsible for seminars and events - an area important to the FIA. He is also responsible for the FIA *Newsletter*.

WEB SITE With the support of DTI funding the FIA has set up a state of the art web site which provides members with a whole range of added value services. This web site is achieving around 15,000 "hits" a month by visitors seeking information about the FIA and its members.

DOCUMENTATION The FIA has, with the help of a team headed by Steve Strange from Annixter (UK), fully updated the "*Cabling Selector Guide*" which is designed to help end users best select the right type of fibre optic cables for specific applications.

ARBITRATION SERVICE A new FIA Arbitration Service aimed at resolving commercial disputes involving member Companies.

AUDIT SERVICE The new FIA Technical Audit Service is aimed at resolving technical disputes involving members

INSURANCE SERVICE The FIA's unique Insurance Scheme is tailored to the needs of installers and others in the industry

DETAILS ON THESE AND OTHER SERVICES ARE AVAILABLE FROM THE SECRETARIAT (01763 273039) OR ON THE FIA WEB SITE:

www.fibreoptic.org.uk

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Colour could be the key to reducing network bottlenecks

Next-generation optical networks will route traffic according to individual wavelength colours, potentially reducing network bottlenecks, according to a report by Bell Labs.

At present, data packets travel on random wavelengths within a fibre. Electronic routers and switches must examine all packets in passing traffic to determine where to send them, limiting traffic flow.

Bell Labs suggests that the wavelength colours could act as an addressing system for traffic, preventing the need for switches to examine every packet - for example, the blue wavelength could carry the traffic to a particular building. And a filter could be programmed to carry blue traffic during the day and green traffic at night," he said.

The concept is already a reality and Bell Labs expects the products to hit the commercial market shortly - possibly within 12 months and particularly as the filtering and laser technologies required are already falling in price.

Nortel Networks Equipment is looking to provide wavelength colour routing by the beginning of 2001.

TRAINING PROVIDERS WITHIN THE FIA

(Request 18pp Training Guide from Secretariat for further details)

Brand Rex Ltd

Chester Road, HELSBY, Warrington, Cheshire WA6 0DJ UK
Tel: 01928 728244 Fax: 01928 728301 Email:
ITORR@BICC-Brand-Rex.com Web: www.BICC-Brand-Rex.com

COURSE 1: Optical Fibre - Practical Cost: Around £195 + VAT per day - 1, 2 or 3 days

COURSE 2: Category 5 Cabling - Practical Cost: Around £195 per day - 2 days

FORM OF QUALIFICATION: In-house certificate

Cable Television & Telephony Training Services Ltd

FIA Approved - Level 1

300 Skellingthorpe Road, LINCOLN, Lincolnshire LN6 0EX UK

Tel: 01522 880900 Fax: 01522 880901 Email:

martyn.cook@cable-training.co.uk Web: www.cable-training.co.uk

COURSE 1: Careers in Cable (Delivered in six modules) Cost: Around £998 incl. VAT - 10 days

FORM OF QUALIFICATION: National Open College Network (OCN)/BTEC North East Midlands Accreditation Partnership (NEMAP) two credits to Level 2

COURSE 2: Telecommunications Vocational Standards Council SVC2 NVQ Underpinning Knowledge. Termination of fibre optical and copper links Cost: Around £99.80 incl. VAT per day

FORM OF QUALIFICATION: NVQ Level 2

CableNet Training Services Ltd

FIA Approved - Level 1

National Training Centre, 2 Northgate Avenue, Bury St Edmunds Suffolk IP32 6BB

Tel: 01284 767100 Fax: 01284 767500 Email: enq@cablenet-training.com Web: www.cablenet-training.com

also at Suite 3, Albans House, 40 Lynchford Road, Farnborough, Hampshire GU14 6EF

Tel: 01252 540466 Fax: 01252 542466

COURSES 1 & 2: Multimode Fibre Optics Installation & Testing - C&G 3466-02 and Approved for 34 hours BICSI continuing education credit - 5 days & **Single-mode Fibre Optics Installation C&G 3466-03 and Approved for 34 hours BICSI continuing education credit** - 5 days

Cost: Around £940 + VAT per course

COURSE 3: Fibre Optic Termination - 1 day.

Costs: Around £275 + VAT

COURSE 4: Datacommunications Cabling C&G 3466-04 and Approved for 37 hours BICSI continuing education credit - 5 days.

Cost: Around £940 + VAT

COURSE 5: Structured Cabling Installation - 2 days **Cost:** Around £450 + VAT

COURSE 6: LAN Design & Implementation - 5 days **Cost:** Around £940 + VAT per course

COURSE 7: CATV & Telecomms - 5 day **Cost:** Around £940 + VAT

COURSE 8: BICSI PROGRAMMES Three courses at three levels - Apprentice, Installer and Technician **Cost:** Around £940 + VAT per course

COURSE 9: RCDD Registered Communications Distribution Designer - 9 days plus home study leading to RCDD status **Cost:** On application

The Cabling Partnership

PO Box MT 65, LEEDS, LS17 8YD UK

Tel: 0113 232 3721 Fax: 0113 232 3724 Email:

Mike.Gilmore@BTInternet.com Web: www.it-cabling.com

COURSE TITLE: All training provided by The Cabling Partnership is customer-specific. The company being trained sets the agenda **COST** Around £260 per person per day. Duration depends on customer requirements

FORM OF QUALIFICATION In-house

Devonport Training for Quality

Phase 2, Kings Road, DEVONPORT, Plymouth, Devon, PL1 5QG UK

Tel: 01752 305330 Fax: 01752 305824 Email:

dtq@pcte.plymouth.ac.uk

COURSE TITLE: Fibre Optic for Technicians

Cost: Around £550 + VAT - 5 days

FORM OF QUALIFICATION: DTQ certificate

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Fujikura Europe Ltd

FIA Approved - Levels 1 & 2

C51 Barwell Business Park, Leatherhead Road, Chessington, Surrey KT9 2NY UK

Tel: 0181 240 2000 Fax: 0181 240 2010 Email:

sales@fujikura.co.uk

Training Centres are at Westbury in Wiltshire and Chessington, Surrey

COURSE 1: Fibre Optic Termination - MT-RJ Connector

Cost: Around £850 + VAT - 3 days

COURSE 2: Fibre Optic Installation & Testing - Single Mode C&G 3466-03

COURSE 3: Fibre Optic Installation & Testing - Multimode C&G 3466-02

Cost: Courses 2 & 3 Around £850 + VAT each (5 days) or £1415 + VAT for both

COURSE 4: Advanced OTDR Testing

Cost: £550 + VAT - 3 days

COURSE 5: Advanced Fibre Optic Test & Measurement

Cost: Around £850 + VAT - 5 days

COURSE 5: Bespoke Training Time & Cost variable

Highbury College Portsmouth

School of Electronics and Electrical Engineering, Dovercourt Road, Cosham, PORTSMOUTH, Hampshire PO6 2SA UK

Tel: 01705 313206 Fax: 01705 210636 Email:

training@highbury.ac.uk

COURSE TITLE: Fibre Optics Technology & Application – 4/5 days **Cost:** Around £550 + VAT

FORM OF QUALIFICATION

City & Guilds 3466 plus a Highbury College certificate

Light Networking

40 Ravenswood Drive, Shawlands, GLASGOW, Scotland G41 3QS UK

Tel: 0141 632 7338 Fax: 0141 632 7338

COURSE 1: Fibre Optics for Installers - 5 Days, 4 People

Cost: Around £498 + VAT for a 3-day course.

COURSE 2: Fibre Optic Installers Appreciation Course - 4

Days, 20 People **Cost:** Contact Light Networking

COURSE 3: Fibre Optics for Engineers - 4 days, 12 People.

Held at City University, London; in Glasgow; Manchester and in Stevenage **Cost:** Around £920 + VAT for a 4-day course.

Discount for pre-payment.

COURSE 4: Introduction to Fibre Optics 1 or 2 days **COST**

around £189 + VAT

Lineartron Cabling Systems Ltd

Lineartron House, 7 Black Moor Road, Ebblake Industrial Estate, VERWOOD, Dorset, BH31 6AX UK

Tel: 01202 828001 Fax: 01202 828089 Email:

sales@lineartron.co.uk Web: www.lineartron.co.uk

COURSE TITLE: Fibre Optic Cabling - Practical Skills and Training - 3 days **Cost:** Around £750 + VAT

FORM OF QUALIFICATION: In-house

Motherwell College

Dalzell Drive, MOTHERWELL, North Lanarkshire, ML1 2DD UK

Tel: 01698 232323 Fax: 01689 275430

COURSE 1: Fibre Application and Data Transmission -

Unit No. 8540307 **Cost:** Around £230 + VAT for a 7-day course. Class sizes no higher than 10

FORM OF QUALIFICATION: Higher National Certificate from SQA

COURSE 2: Principles of Optical Fibre - Unit No. 3471577 **Cost:** Around £230 + VAT for a 7-day course. Class sizes no higher than 10

FORM OF QUALIFICATION: Higher National Certificate from SQA

Optical Training Sales & Services

FIA Approved - Level 2

Technical Training Bureau, 37 Fulmar Drive, EAST GRINSTEAD, West Sussex RH19 3NN

Tel: 01342 300350 Fax: 01342 300350 Email: Tonywotss@aol.com

COURSE 1: Design and Installation of a Fibre Optic Link - 2

days **Cost:** Around £438 + VAT

FORM OF QUALIFICATION: In-house plus NVQs

COURSE 2: Basic Skills in Installing a Fibre Optic Link - 3 days

Cost: Around £498 + VAT

FORM OF QUALIFICATION: In-house plus NVQ Levels 1 and 2 assessment

Redcar & Cleveland College

Corporation Road, REDCAR. Redcar & Cleveland, TS10 1EZ UK

Tel: 01642 473132 Fax: 01642 490856 Email: clived@ac.uk www:

cleveland.ac.uk

COURSE 1: Fibre Optic Installation & Testing

Cost: Around £920 - VAT non-applicable – 5 days

FORM OF QUALIFICATION: C&G3466 – 02 Multimode; – 03

Singlemode

COURSE 2: Introduction to Fibre Optics – **Cost:** Around £100 -

VAT non-applicable – 1 day

COURSE 3: Fibre Testing **Cost:** Around £580 - VAT non-

applicable – 2 days

COURSE 4: Maintenance of Fibre Optics **Cost:** Around £590 -

VAT non-applicable – 2 days

COURSE 5: FDDI **Cost:** Around £600 - VAT non-applicable – 2

days

COURSE 6: TVSC NVQ Assessment in Fibre Optics – Levels 1 &

2 **Cost:** On application

COURSE 7: Structured Cabling **Cost:** Around £450 – 3 days

(Ortronics recognised)

COURSE 8: Category 5 Installation **Cost:** Around £175 - VAT

non-applicable – 1 day (Ortronics recognised)

Welcome to the following

New FIA Members

Fibre 2000 Network Services Ltd

- Corporate Member

Vosper Mantech Ltd

- Corporate Member

FIA NEWSLETTER

Could it be YOU?

The FIA is urgently seeking a representative from one of the Association's member companies who would be willing to serve on the FIA Council. The task would be to represent the FIA on relevant training and qualifications issues e.g. City & Guilds, NVQs, BICSI etc.

Please contact the FIA Secretariat for more details

CableNet Extends Course

CableNet Training Services have extended their fibre optic termination course from one to two days. Designed for installation, maintenance and test engineers, the programme has been extended to provide an in-depth introduction to installing and terminating multi-mode fibre optic cables and connectors.

For further information contact CableNet on 01284 767100, fax: 01284 767500, email: enq@cablenet-training.com, or visit their website on www.cablenet-training.com

Cabling Selection Guide

Members are reminded that the full revision of the FIA Selection Guide for Standard Optical Cables is now available.

The 20pp publication is not available in hard-copy form but, when paid for, may be downloaded in .pdf format from the FIA Web Site using a special access code. It can also be sent via Email or on a floppy disc.

Credit Cards

It is now possible to place orders via the Secretariat by Credit Card (VISA/Mastercard/ JCB/Delta/Solo/Switch)

Costs are: **FIA Members - £25 Non-Members - £75**

The Guide had been designed to assist with the selection of cable constructions typically used in today's fibre optic industry. In all cases, a combination of the application and the environment in

which the cable will be installed will call for differing cable construction requirements.

The Guide is applications based and, in its first section, provides the full spectrum of applications coverage for copper, multimode fibre and singlemode fibre together with a table of optical performance.

Whether indoor, outdoor, loose tube, tight buffered riser or duct, the Guide helps to provide the correct selection.

Other sections cover Cable Materials, Cable Types, Applications, Installation Considerations, Standard Specifications, and a Glossary of Terms.

Any comments or suggestions about the publication will be welcomed by the Secretariat.

FIA Cable Selection Guide - Order Form (please cut out or photocopy)

To: The FIA Secretariat, Owles Hall, Owles Lane, BUNTINGFORD, Hertfordshire SG9 9PL Fax: 01763 273255

Will you please provide me with a copy of the Guide

I would like it to be supplied as: Floppy Disc
Via Email FIA Web Site Download

I will pay as follows:

Cheque + Purchase Order Purchase Order
Credit Card

If Credit Card, state: VISA Mastercard JCB
Delta Solo Switch

Please tick appropriate boxes

Card Number:

Expiry Date

Name of Cardholder

Card issue number (Solo or Switch)

Card holders name

Amount of transaction £.....

Name:

Company.....

Address

.....

Tel: Email:

FIA NEWSLETTER

FIBRE OPTIC INSTALLATION

FIA Support Documentation for the Installer and User

The introduction of BS7718, a *Code of Practice for the Installation of Fibre Optic Cabling*, follows the original publication by the FIA of the initial Draft B of the document in 1991. Since then, the use of the document has identified various areas which require support documentation to ensure both that the recommendations of the *CoP* are effectively implemented and that standard quality and recording practices are employed. The FIA, therefore, has published the following:

Guidance Notes to BS7718 and FIA-CCP-1/91

This 34pp publication analyses every section and sub-clause in the two documents using a cross-referencing system. Where appropriate, clarification of the recommendations is given together with step-by-step guidance on the design, technical, implementation and contractual implications of the contents. For the installer, it removes the possibility of misinterpretation and simplifies implementation. For the user, it simplifies the task of understanding the requirements and their importance to the generation of a contractual agreement. **Price: FIA Members £20 Non-Members £30**

Fibre Optic Cabling - Recommended Installation Documentation Practices

With documentation of complex fibre optic cabling systems being a fundamental quality assurance requirement, it follows that it has important implications for the long term operation of a cabling system. In particular, such documentation should ensure all parts of a network can be identified by future users with minimal difficulty.

This publication, which is based on the requirements of both *Codes of Practice*, introduces and describes both schematic and textual documentation approaches and how these may be used either individually or in concert. 12 master documentation templates are contained in a special folder and these are designed to achieve industry standardisation of such documentation as well as forming a clearly deliverable item within an installation contract. **Price: FIA Members £15 Non-Members £20**

Installation Specification Template

This step-by-step proforma document, based on *Code of Practice* recommendations, enables an installation to be fully defined in terms of all its required components (modules, nodes, routes, etc). It is designed to prevent important aspects being omitted and provides a comprehensive and invaluable reference for both users and installers. **Price: FIA Members £15 Non-Members £20**

Quality Plan Template

This template, based on *Code of Practice* recommendations, defines all the inspection and test criteria required to ensure an installation fully meets its specification. It is an invaluable aid for both users and installers.

Price: FIA Members £10 Non-Members £15

NOTE - If all the above four documents are ordered at the same time, you may take advantage of the following package price:

Package Price: FIA Members £50 Non-Members £70

Cabling Selection Guide

A comprehensive aid for designers and installers in the Fibre Optic Networking Sector generated by the Cable Committee of the Fibreoptic Industry Association. Provides an easy-to-use guide to fibre optic cable selection.

This publication has just been upgraded. See details on p. 10

To: FIA Secretariat, Owles Hall, Owles Lane, Buntingford, Herts SG9 9PL United Kingdom Tel: 01763 273039 Fax: 01763 273255

Email: jane@fiasec.demon.co.uk

Please supply:

.....copy/copies of *Guidance Notes*

.... copy/copies of *Documentation Practices*

.... copy/copies of *Specification Agreement Template*

.... copy/copies of *Quality Plan Template*

.... copy/copies of ALL FOUR publications at the special package price

Cheque for £ enclosed* Please invoice me for the sum of* My Order No. is

FIA Member? Yes/No* (*Delete where inapplicable) *Note - Prices include post and packing*

Name: Position: Company:

Address:.....

.....Tel: Email: