Welcome to the January 2015 OPTOKON newsletter, and we would like to wish all our clients, partners and readers, a very happy and successful new year. This edition of the newsletter contains a new year message from Jiří Štefl, the General Director and Chairman of OPTOKON as well as something a little different - a highly interesting article that shows that sometimes OPTOKON is not just all about fiber optics.

In this edition we also say thank you and goodbye to one of the longer serving members of the management at OPTOKON.

A new year means new product and service launches and exhibitions, and details of these can also be found in the newsletter.

Don't forget that you can stay up to date with what's happening at OPTOKON throughout the year via the regularly updated news section on our website and by subscribing to the weekly product updates.

PRODUCT NEWS

BROADBAND WI-FI ACCESS
The perfect solution for businesses…
High-speed, secure, accessible and easy to use wireless networks …

MES2124P
Access switch with PoE…
Connect your customers to large enterprises and medium and small businesses …

OFT-4820
4 port optical Loss Test Set...
Combines a Light source and Power Meter in one device …

MOMB series
Outdoor metal fiber optic box…
Dust and moisture resistant outdoor termination of optical cables …

MTP Patchcord
Termination of ribbon fiber or loose individual fibers….
For quick connections …

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Recent Exhibitions


**BROADBAND WORLD FORUM, 21.10.14 – 23.10.14, Amsterdam, Holland**
Our partner Eltex, presented and demonstrated the product range for FTTH, FTTB and PON networks at the Broadband World Forum. These are products jointly developed with OPTOKON and manufactured under license at our headquarters in Jihlava.

**INDODEFENCE, 5.11.2014 - 8.11.2014, Jakarta International Expo (PRJ), Kemayoran, Jakarta-Indonesia**

Forthcoming Exhibitions

**DEX 2014 exhibition**
22 - 26 February 2015
Abu Dhabi, UAE.
You can visit us on OPTOKON stand: 01-B14

**OFC 2015**
24.3.2015 - 26.3.2015, Los Angeles, USA
Stand 913
In the spirit of cooperation, OPTOKON will be presenting its products on the Suncall America stand at OFC 2015.
A New Year message from Jiří Štefl,  
the General Director and Chairman of OPTOKON

Dear Colleagues, Clients, Partners and Distributors,

It is with great pleasure that I wish you all a happy 2015 and much success in your personal and professional lives.

Whilst 2014 was a year where OPTOKON could look back and reflect on some significant achievements, priority areas for the next 12 months include continuing our focus on research and development and to continue our collaboration on research projects with various universities and academies.

We will continue to innovate by designing and launching innovative cutting-edge products such as the Opto-Fiber Sensory System, while continuing to expand our presence in markets such as Germany where we now have a representative office, as we also consolidate the activities of the OPTOKON group in the Gulf Region where OPTOKON has opened its first calibration laboratory.

Production of PON technology, where we have strong partner cooperation, will be expanded in 2015 along with the stock and expedition and on the military side, it is planned that our products will be AQAP audited in accordance with ČOS051622, which if successful will be further confirmation of their outstanding quality.

To achieve greater success, each and every member and partner of OPTOKON has a role to play, and that is why later this year, the OPTOKON group and partners will come together to discuss and address ideas on how they can be fully involved in the direction of the company when we will once again host the OPTOKON distributor conference.

I would like to thank all our business partners for their support and assistance. With their help, we can demonstrate our variation and sustainability, change and constancy, growth and innovation and quality. We are determined to set an example – not only from an economic perspective, but also from a social perspective. As an independent Czech company, we believe in balanced sustainability.

We are always open and responsive to any questions and suggestions that you may have. After all, it is only by communicating that the true worth is shown - and that brings us to the core of what we want to achieve

Ing. Jiří Štefl  
General Director & Chairman
Ing. Jiří Šedivý

Jiří Šedivý has been the Production Director at OPTOKON since joining the company in 2003. In his time based at headquarters in Jihlava, he has proven to be a popular manager who has overseen and played a major role in both the expansion of company production lines and the company as a whole. Mr Šedivý will be retiring in January 2015 and all staff at OPTOKON would like to wish him a long, healthy and enjoyable retirement.

Mr Šedivý will be succeeded by Michal Smolík who joined the company in 2014.

OPTO -FIBER SENSORY SYSTEM FOR INTRUSION DETECTION MONITORED AREAS AND FOR PREVENTING DAMAGE

In 2015, OPTOKON will be launching a completely unique system on the market, which comprises a multipurpose surveillance system using standard telecommunication optical fiber as a distributed sensor. The system is suitable to be integrated into a master system for border surveillance of objects or areas for monitoring pipeline networks, and tracking and measuring other sources of mechanical vibration. Using this solution can, for example, when used in existing telecommunication optical paths follow railway traffic and detect faults in train brakes. Similarly, traffic on roads, runways etc can also be evaluated.

The system was developed in collaboration with the Department of Telecommunications, Faculty of Electrical Engineering and Communication, Brno University of Technology, Brno, Czech Republic and the full article which recently appeared in the CDIS Review, can be downloaded here

ISO Recertification

OPTOKON is pleased to announce that on 30.9.2014, it was ISO recertified through to 2017.
Company News

OPTOKON Service Center for measuring chromatic dispersion (CD), polarization mode dispersion (PMD) and attenuation profile (AP)

Although OPTOKON is well known for its large and innovative product range, the company also has a number of services available to customers. In the article below we provide a brief outline of the OPTOKON Service Center for CD, PMD and AP.

Part of the OPTOKON range of products and services focused on fiber optics networks are the core services delivered to Network Service Providers (NSP) for the measurement of Chromatic Dispersion, Polarization Mode Dispersion and Attenuation Profile. OPTOKON uses only the best professionally certified JDSU equipment to achieve this.

While CD does not change in time and can be calculated, the measurement is required for verification. PMD is a random event, which does change in time and it is important to monitor its actual value. The NSP then knows what services the line can handle, and for which services it is better to use different fiber or replace the line. Both CD and PMD affect the transmission quality in high speed applications with speeds from 10 Gbps and more.

The Attenuation Profile measurement is important for WDM application. The main purpose is to identify the Water Peak of measured fiber and ascertain which WDM channels the operator should avoid.

OPTOKON also offers professional services such as CD / PMD / AP measuring, comparative measurement, network analysis, consultation and evaluation of measurements. For more information contact our sales department on SALES@OPTOKON.COM or visit our website at WWW.OPTOKON.COM

Demonstration, Training and Test Center (DTTC)

The DTTC at OPTOKON now has the facilities available for companies to demonstrate and present their products via an audio visual link to interested parties. If you feel this would be of benefit to you, then please contact OPTOKON for further information.
And now for something completely different.......  

Journey to AFRICA 2014  

In October 2014, Zdenek Malý, the OPTOKON IT and Marketing Manager, along with six other people, went on a journey to Africa for 33 days, with no reservations, no accommodation booked, just an itinerary of the places they intended to visit in South Africa, Namibia, Botswana and Zimbabwe.

He took 15 698 photos and 670 videos while they drove: 9 330 km - 2 000 on asphalt, 4 000 on dirt roads and the remainder by 4x4 in sand.

Sleeping in tents, sometimes in campsites, sometimes on the road

Famous places visited:

Sossusvlei  
Situated in the largest conservation area in Africa (the Namib-Naukluft National Park), Sossusvlei is possibly Namibia’s most spectacular and best-known attraction and characterized by the large red dunes that surround it and is a large, white, salt and clay pan that is a popular destination all year round. The dunes in this area are some of the highest in the world, reaching almost 400 meters, and provide photography enthusiasts with wonderful images in the beautiful morning and evening light. Deadvlei is a white clay pan located near the more famous salt pan of Sossusvlei, inside the Namib-Naukluft Park in Namibia.
Cape Cross
Cape Cross is a protected area owned by the government of Namibia under the name of the Cape Cross Seal Reserve. The reserve is home to one of the largest colonies of Cape Fur Seals in the world.
Kavango Region
Kavango is the region with the highest poverty level in Namibia, where more than 50% of the population is classified as poor. The region was characterized by an extremely uneven population distribution. The interior is very sparsely inhabited, while the northernmost strip, especially along the Kavango River, has a high population concentration. The largest urban settlements are the capital Rundu and the towns of Nkurenkuru and Divundu.

In Kavango, they visited the local school, where although the children were very poor, they were very happy.

The Himba people
The Himba are an indigenous people with an estimated population of 50,000 who live in northern Namibia, in the Kunene Region and on the other side of the Kunene River in Angola. There are also a few remaining groups of the Ovatwa, who also belong to the Himba people, but are hunters and gatherers. The OvaHimba are a semi-nomadic, pastoral people, culturally distinguishable from the Herero people in northern Namibia and southern Angola.

Both the Himba men and women are accustomed to wearing traditional clothing that befits their living environment in the Kaokoland and the hot semi-arid climate of their area; in most occurrences this consists simply of skirt-like clothing made from calfskins or increasingly from more modern textiles, and occasionally sandals for footwear, with foot soles often found made from old car tires.
Himba women especially, as well as Himba men, are remarkably famous for covering themselves with otjize paste, a cosmetic mixture of butterfat and ochre pigment, to cleanse the skin over long periods due to water scarcity and protect themselves from the extremely hot and dry climate of the Kaokoland as well as against mosquito insect bites.
Victoria Falls
The Victoria Falls are a spectacular sight of awe-inspiring beauty and grandeur on the Zambezi River, where they form the border between Zambia and Zimbabwe. It was described by the Kololo tribe living in the area in the 1800’s as ‘Mosi-oa-Tunya’ – ‘The Smoke that Thunders’. In more modern terms, the Victoria Falls are known as the greatest curtain of falling water in the world.

A couple of times they had to dig the car out ........
Throughout the whole journey, no one fell sick and there were no injuries, so all the party arrived home safely.

Columns of spray can be seen from miles away as, at the height of the rainy season, more than five hundred million cubic meters of water per minute plummet over the edge, over a width of nearly two kilometers, into a gorge over one hundred meters below. The Victoria Falls are in southern Africa on the Zambezi River at the border of Zambia and Zimbabwe.
Solutions for businesses
Eltex AP provides a high-speed, secure, accessible and easy to use wireless network which combines a variety of features and services needed for corporate clients. AP will become a universal solution for organizing wireless networks with a large number of users and high traffic (offices, government offices, conference rooms, laboratories, parks, hotels, etc.)
The full datasheet detailing individual products and applications can be downloaded here

MES2124P Access switch with PoE

The switch connects end users to large corporate networks, small and medium businesses and operator networks – ISP, Internet Service Providers via 100M/1G interfaces. The functionality of the switch provides the option for physical stacking, VLAN support, virtual local area networks, support for multicast distribution groups and advanced security features.
The full datasheet can be downloaded here

OFT-4820 4 port optical Loss Test Set

The OFT-4820 series optical Loss Test Set combines two items of optical test equipment – a Light Source and a Power Meter in the same device, fitted with 4 x OUT/IN ports. The optical Light Source fulfills all the necessary technical requirements for testing in Multimode and Single mode applications at 4 working wavelengths 850, 1300, 1310, and 1550 nm. The optical Power Meter is designed to measure absolute or relative optical power in four optical fibers simultaneously.
The full datasheet can be downloaded here
New Products

MOMB series Outdoor metal fiber optic box, IP66

The OPTOKON MOMB metal box is designed for outdoor termination of optical fiber cables and is an IP66 design resistant to moisture and dust with a single door box with lock. Up to four optical fiber cables can enter or leave the enclosure through the weatherproof cable glands and four cable anchoring points are provided. The MOMB includes a set of individually removable splice trays according to customer request; each tray can accept 12 fusion splices. The housing contains standard CNPM coupling panels with connector adaptors for most industry used standards.

The full datasheet can be downloaded here

OLC – M/P Mini OTDR Launch Cable

If installing an external plant network such as a long distance network or a long campus LAN with splices between cables, then an OTDR is required to check the quality of the fibers and splices. Stress problems in cables caused by improper handling during installation can also be found. If restoring after a cable cut, the OTDR will confirm the quality of temporary and permanent splices to restore operation. On singlemode fibers where connector reflections are a concern, the OTDR will pinpoint bad connectors easily.
New Products

MTP Patchcord

The MTP patchcord provides quick connection, specifically for multifiber cable up to 24 fibers. The MTP connectors are designed for termination of ribbon fiber or loose individual fibers. Connection integrity is provided by the spring action side latch housing and alignment is achieved with high precision guide pins. The housing is colored-coded to differentiate between single mode and multimode. The removable housing enables quick changing of the pin clamps, ferrule cleaning and connector repolishing.

The full datasheet can be downloaded here

All data sheets containing full technical details can be downloaded from WWW.OPTOKON.COM or by contacting the OPTOKON Customer Service Department.

OPTOKON January 2015 Newsletter prepared by SimpsonTrans / the OPTOKON Marketing Department