

THE CORNING OPTICAL OBSERVER

Enterprise Newsletter for the Regions Europe, Middle East, and Africa

CORNING

Dear Reader,

In our industry, we are constantly thinking about how technology can change our lives. Over the past few years, new innovations have made them more comfortable, more convenient, and more connected.

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Industry Headlines

We've pulled together the biggest industry headlines for you:

- Autonomous cars need 5G with fibre
- Driverless cars show off with road trip

[FIND ALL ARTICLES »](#)



What We've Been Up To

Our team has been busy this quarter!

- Corning showcases glass-enabled concept car
- £10,000 from the Corning & Blue Helix Golf Day

[SEE ALL STORIES »](#)



Success Stories

The Future of Automotive and the Role of Fibre

On the roads of our future, our cars will be data hungry, information-rich machines, and fibre has a large role to play in delivering this exciting vision.

[READ ALL STORIES »](#)



Opinion

Fibre technology will enable the smart city revolution

Metropolitan upgrades used to be about new buildings, roads, or amenities. Now, the digital infrastructure has become just as important.

[READ FULL REVIEW »](#)



Solutions For Every Situation

Ensuring Uptime for Autonomous Cars with Passive Optical Tap Modules

As autonomous cars take to our roads, port tapping will become increasingly important for monitoring data centre performance to ensure network uptime and critical in-car service...

[READ ALL ABOUT IT »](#)



Catch Corning on Events and Trainings

DDCD Zettastructure London, DCD Istanbul, DCW Paris, and many more!

Want to know where you can meet with us at upcoming events or find out what new trainings we're offering?

[GO TO EVENTS & WEBINARS »](#)

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Intro/Overview Topic

Dear Reader,

In our industry, we are constantly thinking about how technology can change our lives. Over the past few years, new innovations have made them more comfortable, more convenient, and more connected.

In this issue, we've focused on one of the more immediate disruptors of our daily lives ... mobility. Autonomous and connected cars will not only change the way we get from place to place, but also will completely transform our cities and towns. When data literally drives us, we'll need reliable, high-speed fibre networks behind us.

We hope you enjoy our mobility issue this quarter.

Warm regards,



Juan Manuel Pérez Cortijo

EMEA Marketing Director

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Connect with me on [LinkedIn](#)

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Industry Headlines

Autonomous cars will need 5G with a fibre backbone

5G network systems have a significant role to play as the automotive industry undergoes a major transformation, namely autonomous vehicles. High-speed connectivity is at the heart of connected cars and will, in the future, allow advanced driver assistance systems such as autopilot. With the high reliability of 5G, autonomous cars will also achieve unprecedented levels of reliability. These formidable performance goals are heavily predicated on the availability of fibre, as 5G will require a new transmission infrastructure made up of thousands of cell towers and tens of thousands of antennas that will be deployed on utility poles and other urban infrastructure. New data-driven services like autonomous vehicles are strained by current wireless connectivity, which means that the need for fibre networks and future-ready data centre architecture is massive.

[Learn more](#) about the possible network and data centre solutions for autonomous driving.

Driverless cars show off with an international road trip

Several milestones in on-road testing have been achieved in the race to develop autonomous cars, but never a cross-border demonstration. This is what drove the United States and Canada to make it happen, and more precisely the two suppliers Continental and Magna. On Monday, July 31, two autonomous vehicles successfully crossed the Windsor-Detroit border separating the two countries. This experience was designed to measure the challenges of this kind of technology at border crossings. Indeed, driverless vehicles will need to know how to adapt to changing road rules, such as different signage and units of measurement when crossing a border, especially in regions like Europe, where cross-border travel is common.

Find out more about the [project](#).

France: Prime Minister Edouard Philippe maintains ‘high-speed broadband everywhere in France’ promise within five years

During the traditional general policy speech following France’s presidential election, Prime Minister Edouard Philippe reaffirmed his president-elect’s promise to ensure high-speed broadband access everywhere in France by 2022. This commitment is in response to an urgent need to address the existing digital divide in France while combining the country’s providers’ interests. To achieve this, the new French government is to rework the “High-Speed Broadband Plan” initiated by François Hollande in 2013. Given the importance of France’s digital gap between the different regions, President Emmanuel Macron set an intermediate objective in 2020. By this year, every French household shall at least benefit from a “very good broadband” connection, that is to say, with a speed ranging between 3 and 8 Mbs per second. Nearly five million households will be affected by this intermediate objective, and the government intends to rely on fibre deployment to achieve it.

[Read the original article](#).

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What We've Been Up To

Corning showcases its glass-enabled concept car in New York

Corning unveiled its glass-enabled concept car at CES 2017, with an elegant curved centre dashboard made entirely of glass and completed with colourful displays and a modern wireless charging station. On top of its luxury aesthetic, the cost-effectiveness of the features is also impressive. Even if Corning® Gorilla® Glass is produced in flat sheets, it is so thin it can easily be cold-form processed to withstand the gentle bend radius of the console design without the need for hot moulding.



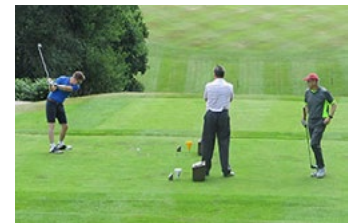
This made it possible for Corning to get a 3D shape at a 2D cost and, because the glass is manufactured flat, it's easier to ship, easier to cut, and easier to decorate. Corning began exploring the automotive glass market a few years ago, offering Gorilla Glass as a lightweight option to traditional auto glazing and, as a result, a way to improve fuel economy and handling. So far, the Corning Car has been showcased primarily in the United States, most recently in July for investors in New York, but it is just at the beginning of its journey.

“Longer term, we are considering a showcase or two of the Corning glass-enabled concept car in Europe, but we don't have a specific date at this time,” said Kevin Morgan, market development and strategy leader for Gorilla Glass for Automotive.

Watch this [video](#) from CES 2017 to learn about all of Corning's glass innovations.

£10,000 from four years of the Corning & Blue Helix Golf Day

On July 6, Blue Helix and Corning hosted and celebrated their 10th Anniversary Golf Day, which took place at the Mannings Heath Golf Club in West Sussex. The aim of the Golf Day is to raise funds for a good cause, and for the fourth year in a row, it helped support a charity called St Catherine's Hospice, an organisation dedicated to providing specialised end-of-life care and support to local people, their families, friends, and caregivers. The Golf Day is also an opportunity to get in touch with Corning customers and thank them for their ongoing support and business.



“We just celebrated the 10th Anniversary of the Golf Day we organise with Corning and are very proud to announce that we were able to reach a huge milestone this year,” noted Piers Benjamin, marketing manager at Blue Helix. “This year we managed to raise £1,855 for the St. Catherine's Hospice Charity, bringing our total for the past four years to £10,000! We would like to thank all those who attended and donated so generously to this great cause, because nothing would have been possible without their support.”

Check out the [event results](#) and winners.

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Employee Focus, South Africa: Werner Smit runs the Comrades Marathon for charity

Werner Smit is not only a great colleague and professional, but he also finds the time to run with his athletics club in Pretoria, called Irene Athletics Club. For the past five years, he has run the annual Comrades Marathon, an ultra-marathon of about 89 km between the cities of Durban and Pietermaritzburg in South Africa, and he's now ready for his sixth edition.



Not only does he run marathons, but he has already run two for charity. In 2015, he and his fellow members at the Irene Athletics Club raised \$20,000 to support Jumping Kids, a charity which is currently supplying the latest prosthetic limb technology to nearly 80 children.

“On a personal level, I run because I appreciate being outdoors and having the opportunity to make the best of it by motivating others to run, living healthy, and appreciating life,” explains Smit, technical sales manager for Carrier Networks at Corning. “But on a broader level, I also think that it is important because the kids supported by charities like Jumping Kids would love to be able to run like anyone else, and this is a great way to help them have a better life.”

Find out more about the [Comrades Marathon](#).

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Success Stories

The Future of Automotive and the Role of Fibre

This year's unveiling of Corning's Connected Car concept demonstrated what the future of our roads could look like. On the surface, the fully electric prototype took full advantage of Corning's® Gorilla® Glass technology, providing benefits such as augmented reality capabilities on the windscreen, user-controlled tints on side and rear windows, and ultra-HD video capabilities and capacitive touch enabling seamless integration with mobile devices and close connections with the outside world.

Look beneath the exterior and there is even more to discover. With intelligent platforms in cars set to offer more than ever in terms of experience, choice, and capability to its driver, the need for high-quality fibre has become integral.

In the future, cars will demand more data and computing power, along with the hardware which allows this to happen. Innovative fibre technology has led the way in providing maximised data capacity without the mass or weight that a car chassis will not allow for.

It's not just behind the scenes where fibre technology can provide a benefit. Ultra-thin and flexible fibre, such as Corning® Fibrance® light-diffusing fibre, the technology has the power to provide new experiences in light and ambience. Whether embedded into the seat lining, integrated into headlights to indicate electrical charge levels, or added into proximity alerts around rear lights, fibre technology will change the automotive experience.

[Watch a video](#) of the Corning Connected Car prototype.



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Opinion

Fibre technology will enable the smart city revolution

Cities are growing. Today, more than half of the world's population live in urban areas and, according to projections, this is set to grow to more than two-thirds by 2050. An additional 2.5 billion people will live in our growing metropolises.

Infrastructure in cities has long been about utilities. However, while water, electricity, transport, and buildings are still vitally important, the need for high-quality connectivity is now taking its place alongside the other 'must haves' of our smart cities of the future.

Fibre is playing a crucial role in this cultural shift. As the demands in technology infrastructure grow, the fibre networks must grow with it. Whether it's higher capacity, lower latency, or better use of space, fibre is advancing the progress of smart cities.

In the roads and cities of the future, and already in action today, big data analytics and automation will enable traffic management to become more agile, adapting to different times of day, across different locations.

For this to succeed, the fibre networks must hold pace, and the drive for infrastructure innovation that we are seeing already in superfast fibre-to-the-home deployments must continue apace.

The potential and possibilities of a smart city are endless, and this is an exciting time for fibre technology both in the automotive space, as evidenced by Corning's connected car concept, and also in infrastructure.

[Read more](#) about the diverse uses for Corning's optical fibre products.



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Solutions for Every Situation

Ensuring uptime for autonomous cars with passive optical tap modules

With rapid development of autonomous vehicle technology, network infrastructure is now an important consideration for manufacturers. Ford invested \$200 million this year to build a new data centre to support its driverless car programme – anticipating an estimated 1,000 percent increase in data usage.

The challenges are manifold. Autonomous vehicles are expected to generate and transmit a colossal four terabytes of data per day and will require low latency connections, powerful analytics and, crucially for passenger safety, uninterrupted network service.

Fortunately these challenges aren't completely unprecedented, and data centres have always been required to adapt to increased network loads. Proven technologies, such as port tapping, are already being used to proactively identify potential security threats, bottlenecks, and other performance issues before they affect the network and, more importantly, the user experience.

A passive optical tap allows inspection of every packet of data, providing 100 percent visibility without putting additional load onto the network. The latest technology, such as Corning's EDGE™ and EDGE8™ solutions tap modules, allows seamless integration into a structured cabling system with very low losses and a zero increase in rack space.

Passive tapping has been deployed in corporate networks for years, but it has yet to be considered an integral part of network best practice. With autonomous cars set to make constant network uptime a necessity, tapping modules could soon become a ubiquitous part of the modern data centre set-up.

[Find out](#) how Corning is reducing network downtime.



Corning commits to new CPR EU safety standards

Corning has achieved full compliance to the Construction Products Regulation (CPR) No. 305/2011 classification criteria now newly applied to telecommunication cables intended for permanent installation inside of buildings and construction works, which certifies the safety performance of cables throughout Europe.

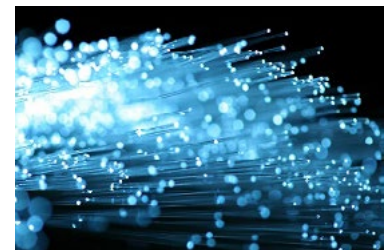
Mandatory since 1 July 2017, products complying with the new regulation are marked with a CE label that indicates the cable is both rated according to the standard EN13501-6 and conforms to the fire safety characteristics.

Our [online catalogue](#) provides updated information on indoor and indoor/outdoor cables and allows an easy identification of fire performance.

The [MIC® tightbuffered indoor cable family](#) is part of the high-performing fibre optic cable portfolio. Its completely gel-free tight-buffered cable construction facilitates easy termination for horizontal cabling and fibre-to-the-desk or -office.

Visit our [Declarations of Performance \(DoP\) website](#) to download product certifications.

For more information on CPR, please download our [whitepaper](#) or view our [recorded webinar](#).



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Catch Corning on Training and Events

Webinar

[Go To Webinar Webpage](#)

Events

October 17

Data Centre Experience, Munich

An experts' forum helping you make the right decision when it comes to construction and operating of the data centre.

Find out more at: http://www.datacenter-experience.com/muenchen-21-09-2017_de.html

October 24-25

DC Day Wurzburg, Germany

What does the future of the data centre look like? Find out at DC Day in Wurzburg. Find out more at: <https://www.dc-day.de/>

October

IT Cloud Days Germany

Join us for this series of events across Germany to learn about new trends in cloud technology. More info available here:

<https://www.cloudcomputing-conference.de/main/>

November 29

DC Forum Stockholm

Knowledge, events, and inspiration for data centre professionals in the Nordics and Baltics.

More info here: <http://datacenter-forum.com/>

November 7-8

DCD Zettastructure London

Join Corning at Europe's most anticipated digital infrastructure transformation event. Drop by booth #8.

<http://www.dcdconverged.com/conferences/zettastructure>

November 15-16

DCW Paris

Come and join us at one of the biggest gatherings of data centre experts in France. We will be there for you at booth #B35.

<http://www.datacentreworld.fr/>



December 5

DCD Turkey

DCD Turkey is the region's most important forum for business, operations, and technology executives from the region's data centre-scale organisations to discuss cloud and data centre infrastructure build-outs in Turkey. Join Corning at booth #24.

<http://www.dcdconverged.com/conferences/turkey>

Corning Certified Trainings

Training update for Corning NPI members and customers. We would like to inform you about our next training sessions in the EMEA region. The mentioned dates will be held in English language. For more events and other languages, please visit the individual training page online.

[LANscape Fundamentals Training](#)

NPI Certified Training

11 October 2017 – Dubai

6 December 2017 – Berlin

13 December 2017 – London

19 December 2017 – Dubai

[LANscape Fundamentals Training - Classic](#)

NPI Certified Training

14-15 November 2017 – Madrid

[Corning Data Centre Training](#)

NPI Refresher Training

12 October 2017 – Dubai

16 November 2017 – Madrid

7 December 2017 – Berlin

14 December 2017 – London

20 December 2017 – Dubai

[Corning Testing Professional](#)

NPI Refresher Training

17-18 October 2017 – Amsterdam

[Corning NPI Refresher Training](#)

NPI Refresher Training

E-Learning, training start at any time