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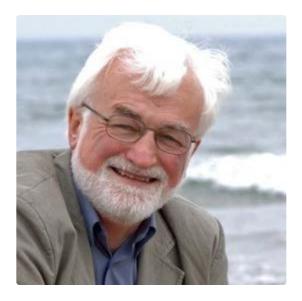
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Brian Culshaw graduated from University College London with a BSc in Physics and thereafter a PhD in Electronic and Electrical Engineering, specialising in microwave semiconductors, completed in 1969. He spent 1970 in the US as a post-doc at Cornell, joining the staff of Bell Northern Research (now Nortel) immediately afterwards and evolving into microwave system design, especially for long haul transmission.

He returned to UCL after three years in Ottawa joining the academic staff at UCL in 1975 thereafter developing an interest in fibre optics for sensing and measurement. With many co-workers, he produced some basic results in the use of phase modulation in sensors and the interferometric architectures to demodulate them. A sabbatical year

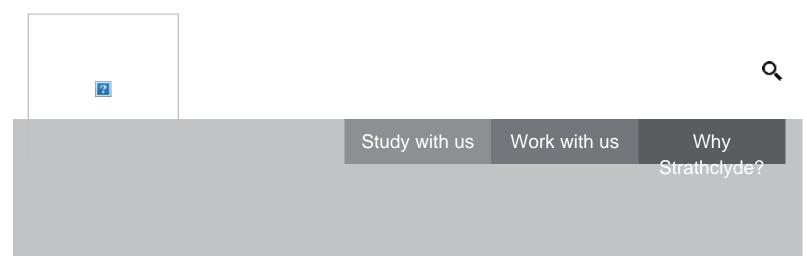
with John Shaw at Stanford in 1982 gave an opportunity to contribute to basic research in fibre gyros. These interests in fibre sensing evolved into applications in ultrasonics, NDE, smart structures, advanced materials technologies, environmental sensing and MEMS. He has founded or co founded three small companies and currently serves as a director of the two survivors!

He moved to Strathclyde University in Glasgow, where he is currently professor emeritus, in 1983 as professor of optoelectronics, and since then has also become involved in a number of professional activities including multi partner national and international research project management, conference organisation and journal editing. His work with professional societies includes serving as President of SPIE during 2007.

At Strathclyde, he served six years as vice Dean (Engineering) and completed a five year term as Head of Department.

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# **Prof Brian Culshaw**

## **Emeritus Professor**

## Electronic and Electrical Engineering

Publications Research Contact

# **Publications**

Temperature calibration of optical fiber attenuation differences induced measurement error of raman distributed temperature sensor

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Tang Yuquan, Sun Miao, Li Jun, Yang Shuang, Culshaw Brian, Dong Fengzhong Proceedings of SPIE - The International Society for Optical Engineering, (2015)

#### http://dx.doi.org/10.1117/12.2194687

### Wavefront integrating fiber sensors for ultrasonic detection

Sorazu B., Thursby G., Culshaw B.
IEEE Sensors Journal Vol 11, pp. 1623-1631, (2012) http://dx.doi.org/10.1109/JSEN.2010.2097247

#### Golay code modulation in low-power laser-ultrasound

Veres Istvan, Cleary Alison, Thursby Graham, McKee Campbell, Armstrong Ian, Pierce Stephen, Culshaw Brian Ultrasonics, (2012)

http://dx.doi.org/10.1016/j.ultras.2012.04.006

#### Third special issue on optical fiber sensors

Culshaw B., Lopez-Higuera J. M., Matias I. R., MacPherson W. N., Santos J. L.

IEEE Sensors Journal Vol 12, pp. 5-7, (2012) http://dx.doi.org/10.1109/JSEN.2011.2147450

# Probing the micro world with lasers and ultrasound - some impressions and observations

McKee Campbell, Armstrong Ian, Cleary Alison, Thursby Graham, Pierce Stephen, Culshaw Brian

1st EOS Topical Meeting on Micro- and Nano-Optoelectronic Systems, (2011)

# Numerical and analytical modeling of optical fibers for ultrasound detection

Veres Istvan, Flockhart Gordon, Pierce Stephen, Culshaw Brian, Berer Thomas, Grun Hubert, Burgholzer Peter IEEE 2011 International Ultrasonics Symposium, (2011)

MORE PUBLICATIONS

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