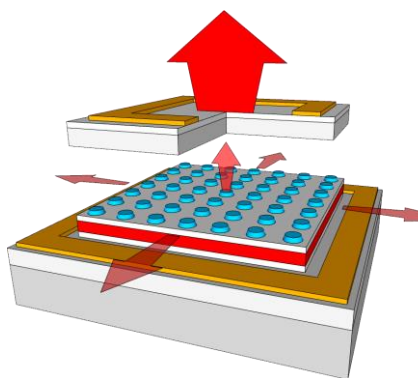


# Photonic Crystal Surface Emitting Laser Workshop

28<sup>th</sup> May 2020 from 7AM BST

Webinar – contact for login



Over the last few years, photonic crystal lasers have emerged as a new class of laser diode. The research community working on the physics, engineering, and manufacture of these components are coming together for the first time to create a new forum for researchers at all career stages to develop their knowledge, presentation skills, and research networks. This on-line workshop will take place on Thursday 28<sup>th</sup> May at 7AM BST. Speakers from the UK, Japan, Switzerland, and Taiwan are coming together in a series of brief review talks and focussed presentations from early stage researchers.

## Draft Schedule

Time (BST)	Time (CEST)	Time (Taiwan)	Time (Japan)	Item	Speaker
07:00	08:00	14:00	15:00	Welcome and Introductions	Prof Hogg
07:10	08:10	14:10	15:10	Overview of PCSEL – From Principle to the State Of The Art for Society 5.0	Prof Noda
07:20	08:20	14:20	15:20	PCSEL with Double Lattice Structure	M. Yoshida, K. Izumi, M. De Zoysa, K. Ishizaki, T. Inoue, and S. Noda
07:35	08:35	14:35	15:35	Time-Dependent 3D Coupled-Wave Analysis of PCSEL	T. Inoue, R. Morita, M. Yoshida, M. De Zoysa, and S. Noda
07:50	08:50	14:50	15:50	Output Beam Spatial Polarization Control by PCSEL	K. Kitamura and S. Noda
08:05	09:05	15:05	16:05	Introduction to Activities at National Chiao Tung University	Prof Lu
08:15	09:15	15:15	16:15	Integration of Multiple Diffractive Elements on Photonic Crystal Surface Emitting Lasers	Lih-Ren Chen, Kuo-Bin Hong, Shuo-Ling Chen, Kuan-Chih Huang, and Tien-Chang Lu
08:30	09:30	15:30	16:30	Quantum-Dot Photonic-Crystal Surface-Emitting Lasers of 1.3-um Range	Yu-Chen Chen, Ming-Yang Hsu, Chun-Wei Yeh, Chien-Hung Pan, and Gray Lin
08:45	09:45	15:45	16:45	Break	
08:55	09:55	15:55	16:55	Outline of JSPS Activities and Opportunities	Poly Watson, JSPS
09:05	10:05	16:05	17:05	Introduction to Activities at University of Glasgow	Prof Hogg
09:15	10:15	16:15	17:15	1.5um Photonic Crystal Surface Emitting Laser Diode	Z. Bian, K.J. Rae, A.F. McKenzie, B.C. King, N. Babazadeh, G. Li, J. R. Orchard, N. D. Gerrard, S. Thoms, D.A. MacLaren, R. J. E. Taylor, D. T. D. Childs, and R. A. Hogg
09:30	10:30	16:30	17:30	Power Scaling in Coherent PCSEL Arrays	B. C. King, A. Boldin, K. J. Rae, A. F. McKenzie, N. D. Gerrard, D. Kim, G. Li, K. Nishi, K. Takemasa, M. Sugawara, R.J.E. Taylor, D.T.D. Childs, R.A. Hogg
09:45	10:45	16:45	17:45	Introduction to Activities at ETH	Zhixin Wang
09:50	10:50	16:50	17:50	Topological Charge of Finite-Zee Photonic Crystal Lasing Modes	Zhixin Wang, Yong Liang, Matthias Beck, Giacomo Scalari, Jerome Faist
10:05	11:05	17:05	18:05	Closing Remarks - Round Table	Prof Noda (Moderator)
10:15	11:15	17:15	18:15	Presentation - Best Student Presentation Prize (JSPS)	Prof Ueno (Director JSPS London)
10:20	11:20	17:20	18:20	Close	Prof Hogg

For more information contact Dr Richard Taylor at [Richard.taylor@gla.ac.uk](mailto:Richard.taylor@gla.ac.uk).