


| INTERCONTINENTAL HOTEL   |  |  |  | ROYAL DUBLIN SOCIETY (RDS)                                    |   |  |  |
|--|--|--|--|---|---|--|--|
| Shrewsbury Room 1  | Shrewsbury Room 2  | Ailesbury Room                                   | Hibernia Rooms   | Hall 7  | Minerva Room  | Hall 6<br><i>Sponsored by</i><br> | Merrion Room   |
| <b>SUNDAY 22 SEPTEMBER</b>   |  |  |  |   |   |  |  |
| 8:00 – 20:00 REGISTRATION – Conference Hub                           |  |  |  |   |   |  |  |
| 9:30 – 11:00   | WS02: New Modelling Challenges in Optical Communications | WS03: Beyond 5G: The Role of the Optical Network | WS04: Low Latency Optical Communications                   | WS01: Integrated Photonics                                    |   |  |  |
| 11:00 – 11:30 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 11:30 – 13:00  | WS02: New Modelling Challenges in Optical Communications | WS03: Beyond 5G: The Role of the Optical Network | WS04: Low Latency Optical Communications                   | WS01: Integrated Photonics                                    | (12:45 – 18:15) Photonic Integrated Circuit Manufacturing Symposium | (11:00 – 15:00) Diversity Workshop   |  |
| 13:00 – 14:00 LUNCH BREAK  |  |  |  |   |   |  |  |
| 14:00 – 15:30  | WS06: Neuromorphic DSP/Machine Learning                  | WS07: Ultra Wideband Communications              | WS08: Passive Optical Networks at 50G Line Rate and Beyond | Invited workshop: Hybrid PICs                                 | (12:45 – 18:15) Photonic Integrated Circuit Manufacturing Symposium | (11:00 – 15:00) Diversity Workshop   |  |
| 15:30 – 16:00 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 16:00 – 17:30  | WS06: Neuromorphic DSP/Machine Learning                  | WS07: Ultra Wideband Communications              | WS08: Passive Optical Networks at 50G Line Rate and Beyond | Invited workshop: Hybrid PICs                                 | (12:45 – 18:15) Photonic Integrated Circuit Manufacturing Symposium |  |  |
| 18:30 – 20:00 GET TOGETHER – Intercontinental Hotel                  |  |  |  |   |   |  |  |
| <b>MONDAY 23 SEPTEMBER</b>   |  |  |  |   |   |  |  |
| Shrewsbury Room 1  | Shrewsbury Room 2  | Ailesbury Room                                   | Hibernia Rooms   | Hall 7  | Minerva Room  | Hall 6   | Merrion Room   |
| 8:00 – 18:30 REGISTRATION – Conference Hub                           |  |  |  |   |   |  |  |
| 9:30 – 12:30 OPENING CEREMONY & PLENARY SESSION (Hall 7, RDS)        |  |  |  |   |   |  |  |
| 12:30 – 14:00 LUNCH BREAK  |  |  |  |   |   |  |  |
| 14:00 – 15:45  | M.1.A: Multiplexers/Demultiplexers                       | M.1.B: Quantum Communications                    | M.1.C: Radio Access Networks                               | Demo Session  | M.1.D: Multicore Fibres   | M.1.E: Quality of Transmission and Machine Learning  | M.1.F: Coherent PON and 5G Fronthaul                                       |
| 15:45 – 16:15 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 16:15 – 18:00  | M.2.A: Silicon Photonics                                 | M.2.B: Thz Transmission and Beamforming          | M.2.C: Analogue Radio Over Fibre                           | Demo Session  | M.2.D: Probabilistic Shaping and Coding                             | M.2.E: Optical Networks Performance Evaluation   | M.2.F: High Speed PON Technologies   |
| 19:30 – 23:00 WELCOME RECEPTION – Guinness Storehouse                |  |  |  |   |   |  |  |
| <b>TUESDAY 24 SEPTEMBER</b>  |  |  |  |   |   |  |  |
| Shrewsbury Room 1  | Shrewsbury Room 2  | Ailesbury Room                                   | Hibernia Rooms   | Hall 7  | Minerva Room  | Hall 6   | Merrion Room   |
| 8:00 – 18:00 REGISTRATION – Conference Hub                           |  |  |  |   |   |  |  |
| 9:00 – 10:45   | Tu.1.A: Transmission Technologies                        | Tu.1.B: FEC                                      | Tu.1.C: Non Linear Effects in Fibres                       | Tu.1.D: Optical Field Reconstruction                          |   | Tu.1.E: Transmitters and Photodiodes   | Data Centres Symposium   |
| 10:45 – 11:15 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 11:15 – 12:30 Exhibition Only - RDS                                  |  |  |  |   |   | Data Centres Symposium   | (11:00 – 13:00) Beyond Awareness Luncheon                                  |
| 12:30 – 13:30 LUNCH BREAK  |  |  |  |   |   |  |  |
| 13:30 – 15:15  | Tu.2.A: Silicon Photonics and Hybrid Integration         | Tu.2.B: Direct Detection DSP                     | Tu.2.C: Microwave Photonics                                | (15:00 – 16:30) Professional Development: Peer Review Meet-up | Tu.2.D: High Symbol Rate Transmission                               | Tu.2.E: Hollow Core Fibres   | Data Centres Symposium   |
| 15:15 – 15:45 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 15:45 – 17:30  | Tu.3.A: Modulators                                       | Tu.3.B: Coherent DSP                             | Tu.3.C: Optical Wireless Communications                    | (16:30 – 18:00) Lab Automation Hackathon                      | Tu.3.D: Short Reach Systems   | Tu.3.E: Network Management and 5G  | Data Centres Symposium (18:00 – 20:00) European Photonic Integration Forum |
| <b>WEDNESDAY 25 SEPTEMBER</b>  |  |  |  |   |   |  |  |
| Shrewsbury Room 1  | Shrewsbury Room 2  | Ailesbury Room                                   | Hibernia Rooms   | Hall 7  | Minerva Room  | Hall 6   | Merrion Room   |
| 8:00 – 19:30 REGISTRATION – Conference Hub                           |  |  |  |   |   |  |  |
| 9:00 – 10:45   | W.1.A: Field Trials and Applications                     | W.1.B: Novel Applications of Machine Learning    | W.1.C: Field Design and Multicore Amplifiers               | W.1.D: System Modelling                                       |   | W.1.E: Vibration Sensing and ODR Monitoring  | W.1.F: PON and Converged Networks  |
| 10:45 – 11:15 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 11:15 – 13:00  | W.2.A: Mode Division and Multiplexing Transmission       | W.2.B: Packaging and 3D Integration              | W.2.C: Devices for Fibre Optics                            | W.2.D: Modulation and Coding                                  |   | W.2.E: 5G and Multimode Fibre Applications   | W.2.F: Data Centre Networking  |
| 13:00 – 14:00 LUNCH BREAK  |  |  |  |   |   |  |  |
| 14:00 – 16:00  | W.3.A: SDM and NFT                                       | W.3.B: Digital Non Linear Mitigation Techniques  | W.3.C: Multimode Fibres and SDM                            | (14:00 – 16:30) Exploring the Universe Prof. Brian Cox        |   | W.3.D: Machine Learning and Performance Monitoring   | W.3.E: Network Disaggregation  |
| 16:00 – 17:30  |  |  |  | ePoster Session 1   |   |  |  |
| 17:30 – 19:00  |  |  |  | ePoster Session 2   | ON2020 Workshop   |  |  |
| 20:00 – 22:30 GALA DINNER – Round Room at the Mansion House          |  |  |  |   |   |  |  |
| <b>THURSDAY 26 SEPTEMBER</b>   |  |  |  |   |   |  |  |
| Shrewsbury Room 1  | Shrewsbury Room 2  | Ailesbury Room                                   | Hibernia Rooms   | Hall 7  | Minerva Room  | Hall 6   | Merrion Room   |
| 8:00 – 17:00 REGISTRATION – Conference Hub & Intercontinental Hotel  |  |  |  |   |   |  |  |
| 9:00 – 10:45   | Th.1.A: Optical Fibre Networking                         | Th.1.B: Transceiver Optimisation                 | Th.1.C: Fibre Amplifiers and Quantum Communication         | Th.1.D: High Speed InP Devices                                |   | Th.1.E: Machine Learning   |  |
| 10:45 – 11:15 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 11:15 – 13:00  | Th.2.A: DCI Subsystems                                   | Th.2.B: Probabilistic Constellation Shaping      | Th.2.C: Terahertz Communications                           | Th.2.D: Lasers  |   | Th.2.E: Novel Concepts for Transmission Systems  |  |
| 13:00 – 14:00 LUNCH BREAK  |  |  |  |   |   |  |  |
| 14:00 – 15:30  | Post Deadline Session 1                                  | Post Deadline Session 2                          | Post Deadline Session 3                                    |   |   |  |  |
| 15:30 – 16:00 COFFEE BREAK – Conference Hub & Intercontinental Hotel |  |  |  |   |   |  |  |
| 16:00 – 16:30 CLOSING CEREMONY (Shrewsbury 1&2)                      |  |  |  |   |   |  |  |
| Fibres, Fibre and Free Space Devices and Fibre Amplifiers            |  |  |  | Theory of Optical Communications                              |   |  |  |
| Integrated Optoelectronic Devices and Optical Processors             |  |  |  | Photonics for Free Space, 5G, and Microwave Applications      |   |  |  |
| Digital Signal Handling Techniques                                   |  |  |  | Fibre Based Networks  |   |  |  |
| Point-to-Point Optical Transmission                                  |  |  |  | Network Architecture, Control and Management                  |   |  |  |