

UV LED Technology and Application Requirements Workshop

Tyndall National Institute, University College Cork

22nd March 2017

09.30 – 09.45 Arrival and tea/coffee

09.45 – 09.50 Introduction (*Peter Parbrook, Tyndall*)

09.50 – 10.20 Overview of UV LEDs (*Michael Kneissl, TU Berlin*): Introduction, applications, present performance, technical challenges and outlook

10.20 – 11.00 Elevator pitches on materials development (5 minutes each)

Peter Parbrook/Brian Corbett (Tyndall), Michael Kneissl (TU Berlin), Tao Wang (Sheffield), Paul Edwards (Strathclyde), Carol Trager-Cowan (Strathclyde) on behalf of Ferdinand Scholz (Ulm)

11.00 – 11.15 **Tea/coffee break**

11.15 – 12.15 Application session 1

- 1) *Ewan Eadie (Ninewells Hospital, Dundee)*: Use of UV LEDs for the diagnosis and treatment of photosensitive skin diseases
- 2) *Donald Allan (Salford Royal Hospital)*: Design requirements for medical devices
- 3) *Stefan Andersson-Engels (Tyndall)*: Clinical translational research based on fluorescence at Biophotonics@Tyndall

12.15 – 13.00 **Lunch break**

13.00 – 13.30 Application session 2

- 1) *Marcel Jansen (UCC)*: Spectral manipulation of crops; UV-emitting LEDs as a new tool to for sustainable cropping
- 2) *Timothy Sullivan (UCC)*: UV use in biofouling and antifouling research

13.30 – 14.00 Discussion // Elevator pitches on applications

14.00 – 14.30 Overview of funding opportunities

Martin Gregory (Strathclyde) & Georgios Fagas (Tyndall)

14.30 – 14.45 Questions and discussions

14.45 – 15.00 **Tea/coffee break**

15.00 – 16.00 Breakout discussion sessions

16.00 – 16.30 Conclusion