

| PoLNET Workshop 2019 - Non-equilibrium cold plasmas in biology and medicine |            |   |                                  |                    | University of York 10/12/- 11/12/2019   |
|---|------------|---|----------------------------------|--------------------|---|
| Session/ Breaks   | Start time | Duration  | Discussion                       | Speaker            | Topic   |
| Day 1 – Tuesday 10 December 2019  |            |   |                                  |                    |   |
| Coffee and Registration   | 10:00      | 00:25   | Alfven Room (GN/011)             |                    |   |
| Welcome and Introduction  |            |   |                                  |                    |   |
| Welcome   | 10:25      | 00:05   |                                  | Deborah O’Connell  |   |
| PoLNET  | 10:30      | 00:15   |                                  | Tom Mcleish        | PoL Network Introduction  |
| Session 1 – Plasmas for medical applications                                |            |   |                                  |                    |   |
| Invited Presentation  | 10:45      | 00:25   | 00:05                            | Cristina Canal     | Potential of cold plasmas and biomaterials for treating osteosarcoma  |
| Oral Presentation   | 11:15      | 00:12   | 00:03                            | Paul Maguire       | Towards plasma treatment inside the body?   |
| Oral Presentation   | 11:30      | 00:12   | 00:03                            | Nishtha Gaur       | Investigating the interactions of plasma with cells and tissues   |
| Invited Presentation  | 11:45      | 00:25   | 00:05                            | Fiona Frame        | Using primary prostate epithelial cells, from normal prostate tissue and prostate cancer, as a model to investigate the mechanism of action of low temperature plasma |
| Lunch   | 12:15      | 00:60   | Venue Derwent cafe               |                    |   |
| Session 2 - ‘Modelling’ plasma tissue interactions                          |            |   |                                  |                    |   |
| Invited Presentation  | 13:15      | 00:25   | 00:05                            | Rob Short          | Innovation in treating chronic wounds Plasma deposited films and plasma jets  |
| Oral Presentation   | 13:45      | 00:12   | 00:03                            | Helen Davies       | Low Temperature Air Plasmas for Wound Healing Applications  |
| Flash Presentations   | 14:00      | 00:30   | 00:00                            |                    |   |
| Coffee  | 14:30      | 00:30   | Alfven Room (GN/011)             |                    |   |
| Invited Presentation  | 15:00      | 00:25   | 00:05                            | Andrew Gibson      | The role of numerical simulations in understanding plasma-cell interactions: status, challenges and opportunities   |
| Oral Presentation   | 15:30      | 00:12   | 00:03                            | Maria Tudorovskaya | Plasma chemistry data in the context of biomedical applications   |
| Session 3 – Plasma liquids  |            |   |                                  |                    |   |
| Oral Presentation   | 15:45      | 00:12   | 00:03                            | Zdenko Machala     | Cold air plasmas and plasma activated liquids for disinfection, dentistry, wound healing, anticancer and plant growth promotion                                       |
| Oral Presentation   | 16:00      | 00:12   | 00:03                            | Daniela Boehm      | Tailoring plasma activated liquids for biomedical applications?   |
| Interactive Q&A   | 16:15      | 00:15   |                                  |                    |   |
| Tour  | 16:30      | 00:45   | Tour of York Plasma Laboratories |                    |   |
| Adjourn   | 17:15      |   |                                  |                    |   |
| Dinner  | 19:30      | Double Tree Hilton, York – Drinks at 19:30, Dinner at 19:50 |                                  |                    |   |
| Day 2 – Wednesday 11 December 2019  |            |   |                                  |                    |   |
| Coffee  | 09:15      | 00:30   | Alfven Room (GN/011)             |                    |   |
| Session 4 – Towards plasma technology                                       |            |   |                                  |                    |   |
| Invited Presentation  | 09:45      | 00:25   | 00:05                            | Iain Larmour       | Interdisciplinary Research Funding: reflections of a former funder  |
| Oral Presentation   | 10:15      | 00:12   | 00:03                            | Tom Wantock        | Wound Care: Fourth State Company Overview   |
| Oral Presentation   | 10:30      | 00:12   | 00:03                            | Mary McGovern      | European and FDA requirements for medical devices and drugs   |
| Coffee  | 10:45      | 00:30   | Alfven Room (GN/011)             |                    |   |
| Session 5 – Plasma decontamination  |            |   |                                  |                    |   |
| Invited Presentation  | 11:15      | 00:25   | 00:05                            | Brendan Gilmore    | Non Thermal Plasma Exposure Enhances Antibiotic Sensitivity and Immune Response to Pathogenic Biofilms  |
| Oral Presentation   | 11:45      | 00:12   | 00:03                            | Alex Scott         | How does Low-Temperature Plasma Damage the Bacterial Outer-Membrane?  |
| Oral Presentation   | 12:00      | 00:12   | 00:03                            | Nataša Hojnik      | Atmospheric Pressure Air Plasma Decontamination of Mycotoxins   |
| Lunch   | 12:15      | 00:60   | Venue Derwent cafe               |                    |   |
| Session 6 - Plasma applications in agriculture and medicine                 |            |   |                                  |                    |   |
| Invited Presentation  | 13:15      | 00:25   | 00:05                            | Paula Bourke       | Cold Plasma Innovations for Food and Agriculture - Opportunities and Challenges   |
| Oral Presentation   | 13:45      | 00:12   | 00:03                            | Timothy Douglas    | Dairy-derived biomaterials  |
| Interactive Q&A   | 14:00      | 00:15   |                                  |                    |   |
| Panel Discussion  | 14:15      | 00:45   |                                  |                    |   |
| Festive refreshments  | 15:00      |   | Alfven Room (GN/011)             |                    |   |
| End of Meeting  |            |   |                                  |                    |   |

All presentations will be conducted in the Debye Lecture Theatre at the York Plasma Institute, Genesis 1 & 2, Church Lane, Heslington, York, YO10 5DQ.