



Photonics in Medical Diagnostics – latest developments & healthcare solutions

Rutherford Appleton Lab, Didcot, Thursday 6 May 2010

Light is becoming ever more important in medical diagnostics. A multitude of new techniques are using lasers, cameras and fibre optics combined in many different ways to provide new diagnostic techniques. Some offer the potential ranging from near real time disease identification to in-vivo identification of tumours.

These new tools are becoming available due to the huge advances made in recent years in understanding the interaction of light (photonics) with complex biological samples. In parallel photonics technology has now reached a level of industrial maturity allowing these techniques to be efficiently and reliably used in the working healthcare environment.

Some of the latest optical based diagnostic techniques will be covered in the first part of this meeting. All those techniques have proven diagnostic capability and are in the process of being commercially developed.

Bringing these, and any other new solution, to the healthcare practitioner requires much more than a new technique. Not only does a complete medical system require engineering around the technology, it must be delivered to the market in a way that delivers both clinical benefit and economic advantage for suppliers and healthcare providers. The second set of presentations will focus on case studies from experienced healthcare solution providers who have many years of experience of delivering successful solutions to the healthcare market.

This event is designed to bring together the latest photonic diagnostic advances with those experienced in implementing healthcare solutions, providing a greater understanding of what photonics technologies have in common and encouraging

Agenda

10.00 Registration & Coffee

10.30 Welcome

10:45 **Optical coherence tomography; current status, future opportunities,** *Gordon McKenzie, Michelson Diagnostics*

11:15 **Disease diagnostics with Raman,** *Pavel Matousek, STFC and Cobalt Light*

11.45 **Point of care diagnostics with waveguides,** *Sam Watts, Stratophase*

12.15 Lunch

13.15 **Commercialising Healthcare solutions,** *GE Healthcare Leonard Fass*

13.45 **Guide to Innovation Pathways in Healthcare,** *Chris Rowe, NHS Innovations South East*

14:15 **Bringing innovation to the NHS,** *Brian Winn, NHS Innovation Centre*

14:45 **Collaboration funding opportunities,** *Sue Dunkerton, John Lincoln*

15:00 **Tour of STFC facilities at RAL (Optional)**

16:00 Close

best practice in commercial development.

The Rutherford Appleton Laboratory (RAL) have very kindly agreed to host this meeting at Harwell Science and Innovation Campus, Didcot, OX11 0QX. A tour of the STFC's RAL facilities will be available at the end of the meeting. Directions are available at tinyurl.com/ykd8tdz

SEPNET

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Registration

Although this meeting is free to attend, space is limited and advanced registration is required, please complete the relevant online registration form at www.sepnet.net/registration.html or email your name and contact details to info@sepnet.net. Confirmation will be sent by e-mail.