

Lyostat 2 systems for UK and Brazil

BTL's Lyostat2 fully-integrated freeze-drying microscope system is enjoying increasing success at home and internationally. Since our last newsletter, we are pleased to report that systems have been installed in Brazil and the UK, and we are currently building systems for clients in Germany and the USA.

In February our Research Scientist David Banks paid a visit to the **University of São Paulo** in Brazil to install another Lyostat2 system and train Dr. Ronaldo Pitombo and his colleagues in the use of the system and the interpretation of results. During his trip, David also officially welcomed Olga Maria Dantas and her colleagues at **Lodan** into the BTL worldwide family as our agents in Brazil. Lodan specialises in the supply of laboratory equipment in Brazil and neighbouring countries. For contact details, please see our agents page online, or contact us directly.



And here in the UK, the Lyostat2 system installed recently at **Oxford Biosensors** is already showing impressive results. Senior scientist Dr Rick Wedge took delivery of the microscope in early December and has been using it ever since.



"The Lyostat has revolutionised our approach to both formulation and process development," he says. "It not only gives data that is both easily decipherable and quantifiable but also saves valuable time that could be wasted using conventional freeze drying methods. An amazing piece of kit."

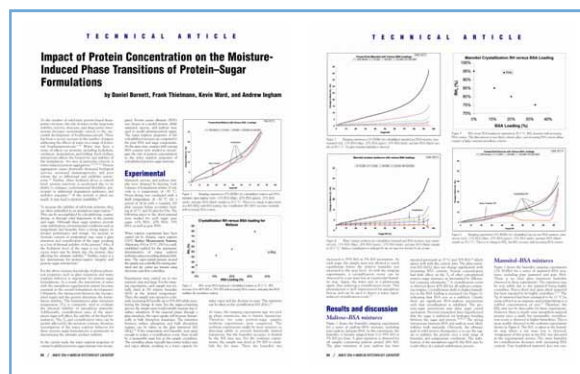
Oxford Biosensors was formed in 2000 based on novel technology from the University of Oxford. The company both develops and manufactures its own products, and the Lyostat2 freeze drying microscope is able to rapidly produce data that can be fed back into both formulation research and cycle development. Freeze drying is a core aspect of its work, so Biopharma Technology was the obvious choice for support.



Publication news

BTL has been working on a joint research project with Surface Measurement Systems Ltd. (SMS) to look at some of the physical aspects of freeze-dried protein-sugar mixtures. Our initial observations regarding the solid state phase transitions have been published (details below). We are currently working with SMS on investigating the effect of different freeze-drying cycles on the physical aspects of these and other mixtures.

Daniel Burnett, Frank Thielmann, Kevin Ward and Andrew Ingham (2006) Impact of Protein Concentration on the Moisture-Induced Phase Transitions of Protein-Sugar Mixtures, *American Biotechnology Lab*, **24**(4), 25-27



Course & Exhibition Dates

Freeze-drying training courses for 2006

So far this year, BTL has run its popular Comprehensive Training Course in San Diego (California, USA), Amsterdam (NL) and Mumbai (India). Forthcoming courses include:

- Winchester (UK) – 22nd to 24th May 2006
- San Francisco (CA, USA) – 17th to 19th July 2006
- New Jersey (USA)- New!** – 25th to 27th September 2006
- Winchester (UK) – 13th to 15th November 2006 (please note new dates)
- India – after Diwali! (2-day course, Nov/Dec 2006, details TBA)

Please see the Training Courses page of our website for further details of all our forthcoming courses (www.lyophilizationtechnology.com/training.htm) or let us know if you are interested in a course at your company, which can be tailor-made to suit your needs.



Symposia & Exhibition Diary

Once again, BTL will be attending a number of scientific meetings in 2006, including the International Society of Pharmaceutical Engineers (ISPE) meeting on lyophilisation to be held in Vienna, Austria in September. More details about this meeting can be found at: www.ispe.org/viennacongress.

We will also be at the IBC Protein Formulation Conference, to be held in San Francisco, California, USA in November (alongside the BioProcess International Conference & Exhibition). Our Dr Kevin Ward will be giving a presentation entitled "Formulation Development Specifically for Freeze-Drying" at the *Formulation for Biotherapeutics* Workshop that forms part of the conference.

These are ideal opportunities to come and meet us in person if you have any questions, so please feel free to stop us and have a chat.

New Appointment

Clare Ross joined BTL as Research Scientist in March 2006 after working as a Microbiologist for a Local Government Public Analyst Laboratory. Clare has worked in other laboratories and completed an HNC in advanced Biology and Microbiology whilst working for DEFRA. Clare's main responsibilities include performing R&D studies, analytical work, report preparation and quality assurance documentation.



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