

Newsletter

The International Lecithin and Phospholipid Society

July 2007

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New ILPS OFFICER Elections

At the Annual General Meeting on May 13, 2007 in Quebec City the officers for the 2 years term July 2007 -2009 were elected.

President - Lance Colbert, Archer Daniels Midland, colbert@admworld.com

Vice-President – Moghis Ahmad, moghis@jinapharma.com

Treasurer – Roger Lantz, American Lecithin Cy, roger.lantz@americanlecithin.com

Secretary – Jonathan Maynes, The Solae Company, jmaines@solae.com

Analytical Secretary – Bernd Diehl, Spectral Services, diehl@spectralservice.de

SHORT COURSE on 5-6 June 2008 in Ghent Belgium

Working title: Phospholipid & Lecithin in Healthy Emulsions

ILPS and the University of Ghent, Dept of Food and Engineering, Belgium will organize a second short course after the success of the February 2005 course with over 80 participants. The oral presentations will again take place in the University Conference Centre “Het Pand” in Ghent Centre and laboratory demonstrations in the Dept of Food Science.

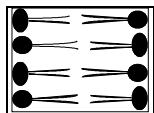
Organizers: Prof. Dr. Paul Van der Meeren, Prof. Dr. Koen Dewettinck and Willem van Nieuwenhuyzen.

Currently we develop the program with topics and key speakers. Paul and Willem will be the main instructors. University staff will instruct the laboratory demonstrations and trials. One idea is that course participants will take their own lecithin sample for preparing emulsions and characterizing e.g. emulsion stability and droplet size distribution by Malvern Mastersizer equipment. This will reflect the result of the enquiry evaluation of the 2005 course.

The technical and social program will be announced in September 2007 on the ILPS website, by e-mailings and in a number of scientific journals and technical magazines.

Companies and institutes consider the course as an incentive and an excellent training and of their -young- staff members.

Please mark Tuesday-Friday 5-6 June 2008 in your diary for sending your staff to Ghent!



Review AOCS SHORT COURSE Quebec 2007

ILPS together with Dr. Paul Angers and Dr. Joseph Arul of the INAF, Institute of Nutraceuticals and Functional Foods of Université of Quebec organized for AOCS the Short Course on Lecithin Properties and Technological Functions, prior to the AOCS 98th Annual Meeting and Expo in Quebec City. Around 40 participants for all over the world had registered.

Instructors were Willem van Nieuwenhuyzen, Dr. Paul van der Meeren of Ghent University, Dr. Bruce Sebree of ADM, Decatur, IL, Dr. Kyo Sato of Hiroshima University and Dr. Moghis Ahmad of Jina Pharmaceuticals Inc, Libertyville, IL

The pilot plant and laboratory demonstrations were prepared and given by the MSc students François-Olivier Marquis-Duval, Para Radanielina, Pierre-Louis Leclerc, Narindra Raharitsifa and Diane Gagnon. Oil-in-Water emulsions with lecithin were prepared with the Avestin homogenization pump and the dairy homogenizer in the well equipped pilot plant. These samples were used in the experiments in the rotating subgroups, measuring

- emulsion droplet size measurement by the Malvern Zetasizer,
- emulsion consistency and viscosity by the TA rheometer and
- modified lecithin properties in various solvents and empirical O/W emulsion tests.

The purpose was to show the properties of the different lecithins and the effects of emulsion preparation on emulsion stability and consistency and particle size.

Participants expressed in the enquiry form that the course met their expectations. Most participants have interest in a follow up SC.

INAF had sponsored the SC by making available the conference facilities, laboratories and staff. INAF staff members Sophie Banville and Moustafa Khalf supported gratefully AOCS Staff member Mary Belding in all organizational and administrative tasks. A more extensive SC review is published in AOCS INFORM magazine July 2007. That editorial will be placed on the ILPS website.

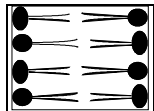
Review ILPS 9th PHOSPHOLIPIDS CONGRESS PECS2006

The 9th Congress was jointly organized in conjunction with the ICBL Conference in Pecs, Hungary, Sept 8-10, 2006. In 4 sessions 25 world class speakers presented scientific evident topics on "Phospholipids for Health". ICBL is the annual International Conference on the Bioscience of Lipids, organized by a University institute in a European country. The overlapping joint sessions were attended by 220 registrants, while 75 registrants from academia, institutes and industry attended the last specific ILPS sessions.

A scientific report is available on the websites www.ilps.org and www.icbl2007.org (ICBL newsletter 2007). This meeting report "ICBL-ILPS-ELIFE: three successful lipid conferences in Pécs" was also edited by Lazlo Vigh and Willem van Nieuwenhuyzen for AOCS -INFORM magazine, March 2007, Vol 18 (3) 203-206.

ILPS gratefully acknowledges the Silver Sponsorship of

- ADM Lecithin Group, Decatur, IL
- Avanti Polar Lipids Inc, Alabaster, AL
- Spectral Service, Cologne Germany



AOCS PHOSPHOLIPID 2007 SESSIONS

The technical program of the 98th AOCS Annual Meeting & Expo was scheduled jointly with the Japanese Oil Chemist Society (JOCS) May 13-17, 2007 in Quebec City

The Phospholipid Division held 4 sessions: Co-Chair

Ether Lipids (2 sessions)

Moghis Ahmad

Specialty Phospholipids

Willem van Nieuwenhuyzen

General Phospholipids

Bernd Diehl & Joe Casey

PHOSPHOLIPID 2008 SESSIONS in Seattle, WA, May 18-21

AOCS has scheduled again 4 sessions

- Phospholipids in Animal Nutrition (Chair: Joe Casey and Bruce Sebree)
- Structured Lipids (Chair: Moghis Ahmad)
- General Phospholipid (Chair: Lance Colbert)
- New Source of Phospholipid (Chair: Willem van Nieuwenhuyzen)

The call for papers and posters is open. Everybody is invited to submit the Declaration of Intent with just title and authors to www.aocs.org/meetings before October 2, 2007. After acceptance, the abstract should be submitted latest in January 2007.

BEST AOCS PHOSPHOLIPID 2006 BEST PAPER AWARD

Each year the ILPS sponsors a Best Paper Award at the annual American Oil Chemists' Society (AOCS) meeting. This award recognizes an outstanding published paper or monograph in the area of Phospholipid research or applications.

The 2006 winners are:

Anders Vikbjerg, Jean-Yves Rusing, Gunnar Jonsson, Hailing Mu and Xuebing Xu, Comparative evaluation of the emulsifying properties of phosphatidylcholine after enzymatic acyl modification. *Journal of Agricultural and Food Chemistry*, **54**, 3310-3316. (2006).

After having received the award plaques, Anders Vikbjerg presented also his paper during the Phospholipid Division Lunch.

CALL for AOCS PHOSPHOLIPID 2007 BEST PAPER AWARD

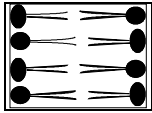
For the 2007 Best Paper Award Competition you are invited to send nominations to jmaynes@solae.com (Phospholipid Division Chair) or jcasey@solae.com (Chair Best Paper Award Committee).

ANALYTICAL NEWS

ILPS EUROPEAN ANALYTICAL SUBGROUP MEETING

The most recent ILPS European Analytical Subgroup meeting was held in Hamburg, Germany, March 1, 2007. Host was Dr Reinhard Lange, Q&A Director of Cargill Lecithin. The minutes of the meeting have been distributed to ILPS Members.

Next meeting is scheduled 28 February 26, 2008 at Spectral Service, Cologne.



HPLC – LSD Method approved by AOCS Analytical Committee

ILPS Analytical Method AM 01 on HPLC – Light Scattering Detection for Lecithin Phospholipids was developed in the 1990ties with final round robins in 12 laboratories. This method was already accepted as official unified DGF method F- I-6a by the German Association of Fat Chemistry in 1998. Dr Richard Cantrill, Technical Director of AOCS informed us that AOCS has approved the method. It is scheduled that the AOCS method will be published in late summer 2007.

Laboratories may need reference samples. Your orders for the ILPS standard can be fulfilled by ILPS members Avanti Polar Lipids and Spectral Services. According to Dr Bernd Diehl of Spectral Services an increasing number of lecithin users send in their own sample with the request for full analysis of all Phospholipid Classes with 31P-NMR method. In this way the laboratories use their own certified sample.

31P-NMR Ring test ongoing

At request of the AOAC (American Organization of Analytical Chemists), Bernd Diehl, member of the AOAC Phosphatidylserine PS working group has organized a 31P-NMR round robin with agreed participation of 17+ laboratories. Results were presented in a lecture at the PHO-4 session (General Phospholipids). A publication in the journal Lipids is foreseen for near futures. The aim is to get a validated method, to be submitted for official approval by AOAC and DGF. ILPS may support Bernd's initiative to issue it also as ILPS method and to draft a method for AOCS approval.

Toluene Insoluble method round robin.

The EU specification TI max 0.3% refers to an EU method. This method, using G3 (porosity 16-40 mu) crucibles, was never validated. As known this method with this fine filter may give filtration problems (former internal ILPS ring test failed)

At request of DGF and IUPAC Alice Bonekamp of ADM Hamburg organizes a round robin. 12-14 laboratories have agreed in participating in the round robin with course G2 crucibles (40-60 mu).

ILPS Website www.ilps.org

The information on the website will be updated soon again. You should know that the website contains under the icon

- ILPS News:** Nutritional and Supplement information
List of Best Phospholipid Paper Award winners
- Standards:** Link to Molecular Structures of various Phospholipids
- Calendar:** Scheduled meetings of scientific and commercial meetings and expositions
- About Us:** Mission and Past events.
- Links:** Links to lecithin companies and associations