

Location Location

The 12th Bombannes school will be held from 16 to 23 May 2014 for one week at the vacation centre "LES BRUYÈRES" in Bombannes, Carcans-Maubuisson, Gironde, France with accommodation (full board) and lecture room located at the same site.

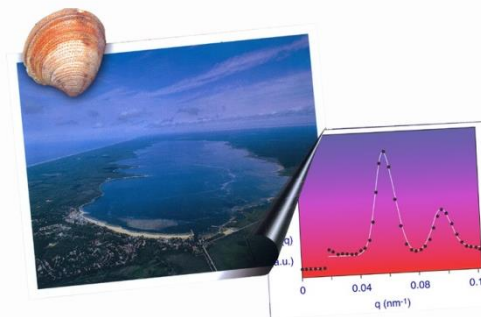
The possibility of common leisure activities (sailing and windsurfing, which is available nearby at the U.C.P.A. sailing centre on Lake Hourtin, bicycle riding) will ensure close contact between students and lecturers.



Scope of the school Scope of the school

The Bombannes summer school is devoted to the practical «state-of-art» approach to scattering methods, using neutrons, as well as X-ray and light sources - today's key techniques to study structure and dynamics in systems containing colloids, polymers, surfactants and biological macromolecules. Since 1990 the Bombannes school series introduces, on a fundamental level, the current methodology of static and dynamic scattering techniques and their application to soft matter systems. It provides with a period of 2 years advanced training for young researchers with a working place in European laboratories at post-graduate and post-doctoral level.

The school provides an introduction to instrumentation and experimental methods in light, neutron and x-ray scattering, covering both dynamics and structural aspects. Scattering theory (from data treatment to simulation techniques and the inverse scattering problem) and lectures dedicated to special topics in the field of soft condensed matter make up the main body of the school. To name just a few, there will be topical lectures on surfactant systems, microemulsions, biological applications, colloidal aggregation, polymers and polymer processing, turbid suspensions, and scattering under external constraints.



Bombannes 2014

**12th European Summer School on
« Scattering Methods Applied
to Soft Condensed Matter »**

**Les Bruyères, Carcans-Maubuisson,
Gironde, France**

16-23 May 2014

<http://www.ill.eu/bombannes>

Contact

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Organizing Committee Organizing Committee

Peter Lindner - ILL, Grenoble (chair)
Otto Glatter - U Graz
Julian Oberdisse - U Montpellier
Jan Skov Pedersen - U Aarhus
Peter Schurtenberger - U Lund

Important dates

February 2014

Deadline for pre-registration

March 2014

Decision on applications and announcement of accepted candidates

Limitation

The number of students is limited to 35.

Participation fees

of the order of 650 €, depending on the level for funding, under discussion.

<http://www.ill.eu/bombannes>

Programme Programme

25 hours of general lectures, divided into two parts: an introductory session during the first half of the week covers the areas of general introduction to scattering experiments, basic concepts of data treatment, the notion of contrast, general theorems, instrumentation and resolution effects. In the second half of the week, applications of static and dynamic scattering techniques to investigate typical polymers, biological systems and turbid suspensions will be presented.

10 hours compulsory oral contributions, given by the students during the evening sessions.

All current lectures will be made available for registered participants on the web (<http://www.ill.eu/bombannes>). Most of the lectures have been published in a standard text book (Neutrons, X-ray and Light: Scattering Methods Applied to Soft Condensed Matter; Lindner, P.; Zemb, Th.; eds. North Holland, 2002), which is included in the participation fee and distributed as lecture material to all students.

Sponsors Sponsors



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