



BePCIS invites you to a course on

## Dispersions and Emulsions: Formation, Stabilization and Characterization

- Date:** Sept 17<sup>th</sup> - 19<sup>th</sup>, 2013
- Time:** 8:30 am to 5:30 pm  
(10 am on Tuesday; 4:30 pm on Thursday)
- Venue:** Château du Lac  
Avenue du Lac 87  
1332 Genvat  
[www.martins-hotels.com/en/hotel/chateau-du-lac](http://www.martins-hotels.com/en/hotel/chateau-du-lac)
- Residential Seminar:** We suggest for the attendants to stay overnight during the course. Please book your room directly at “Château du Lac”; go to our website [www.bepcis.be](http://www.bepcis.be) and click on ‘online booking’ for more details.  
A limited number of rooms are available; we advise attendants to book their room asap.
- Social Program:** A social program will be arranged on the second day of the course (see program)
- Registration:** Please confirm your attendance to [Saskia.Vanderlooven@UGent.be](mailto:Saskia.Vanderlooven@UGent.be) and transfer the course fee of 900 Euro to our bank account [www.bepcis.be](http://www.bepcis.be) 979-9983500-71 (IBAN: BE49 9799 9835 0071; SWIFT: ARSPBE22).  
The registration fee includes all course material, lunches, refreshments and participation to the social program.
- Reductions:** There is a rebate for multiple registrations from the same company (contact [Saskia.Vanderlooven@UGent.be](mailto:Saskia.Vanderlooven@UGent.be)).  
We offer a reduced registration fee for PhD students. (300 Euro – limited slots available; contact [Saskia.Vanderlooven@UGent.be](mailto:Saskia.Vanderlooven@UGent.be)).

# Program

## Dispersions and Emulsions: Formation, Stabilization and Characterization

Day 1

Tuesday, Sept. 17<sup>th</sup>, 2013

Theory of Colloid Stability.

Steric, Electrosteric Stabilisation and Flocculation by Polymers and Polyelectrolytes.

Electrokinetics and Zeta-potential.

Protein stabilized o/w emulsions.

Application of NMR in dispersion characterization.

Optional 'Blind Beer Tasting' after the lectures.

Day 2

Wednesday, Sept. 18<sup>th</sup>, 2013

Birth and life of dispersions and emulsions.

Choice of dispersant, surfactant, emulsifier agent.

Technology of dispersion/emulsion preparation.

Particle sizing instrumentation with demonstrations.

Social Program:

Visit to Fondation Folon (Parc Solvay).

Course dinner at "Chateau du Lac" (7 to 9 pm).

Day 3

Thursday, Sept. 19<sup>th</sup>, 2013

Concentrated Dispersions.

Surfactant self-association behavior.

Rheology fundamentals.

Rheology of concentrated dispersions.

Gravitational effects.

Nanoparticles and nanodispersions.

Polyelectrolyte nanoparticles for the delivery of pharmaceuticals

Biomedical nanoparticles.

A more detailed course program will soon be available on our website  
[www.bepcis.be](http://www.bepcis.be)