

PRACTICALS will be conducted by: - Anne Martel for Instrument A on: [ILL instrument D33](#) - Robert Barker for Instrument B on: [ILL instrument D17](#) - Petra Pernot for instrument C on: [ESRF beamline BM29](#) - Isabelle Morfin for instrument D on: [ESRF-CRG beamline BM02 \(D2AM\)](#)

<b>HERCULES Specialised Courses: Non-atomic resolution scattering in biology and soft matter (HSC16)</b> <b>LECTURES WILL TAKE PLACE IN THE CIBB (Carl-Ivar Brändén Building) SEMINAR ROOM</b>							
	Sunday 14/09/2014	Monday 15/09/2014 CIBB seminar room	Tuesday 16/09/2014 CIBB seminar room	Wednesday 17/09/2014	Thursday 18/09/2014	Friday 19/09/2014 CIBB seminar room	
08:30		<b>Introduction</b>		<b>Practicals - 8h30-12h30</b>	<b>Practicals - 8h30-12h30</b>		08:30
09:00		<a href="#">Introduction to small-angle scattering</a>  Frank Gabel (IBS/ILL)	<a href="#">Neutron reflectometry combined with complementary techniques to solve complex soft matter problems at the air/water interface</a>  Richard Campell (ILL)	Group [1] on instrument A	Group [3] on instrument A	<b>SAXS imagery in scanning mode: application to biological tissues</b>  Aurelien Gourrier (UJF-CNRS)	09:00
10:30		COFFEE/ TEA EMBL/ILL common hall	COFFEE/ TEA EMBL/ILL common hall	Group [2] on instrument B	Group [4] on instrument B	COFFEE/ TEA EMBL/ILL common hall	10:30
11:00		<a href="#">Introduction to neutron reflectometry</a>  Giovanna Fragneto (ILL)	<a href="#">BioSANS: examples, instrumentation, data reduction and analysis</a>  Anne Martel (ILL)	Group [3] on instrument C	Group [1] on instrument C	<a href="#">From biofactories to general anaesthesia: Neutron reflection as a probe for biological challenges</a> Robert Barker (ILL)	11:00
12:30		LUNCH epn campus restaurant	LUNCH epn campus restaurant	Group [4] on instrument D	Group [2] on instrument D	<a href="#">Proteins in solution: Charge-tuning, cluster formation, liquid-liquid phase separation, and crystallization</a> Tilo Seydel (ILL)	12:30
14:00		<a href="#">BioSAXS Instrumentation and Sample Environment at BM29</a>  Petra Pernot (ESRF), Martha Brennich (ESRF)	<a href="#">SAXS - soft matter systems in solution - the CRG BM2 beamline</a> Isabelle Morfin (UJF-CNRS)  <b>Fibre diffraction: theory and applications</b> Trevor Forsyth (ILL-Keele University)	<b>Practicals - 14h00-18h00</b>  Group [4] on instrument A	<b>Practicals - 14h00-18h00</b>  Group [2] on instrument A	<a href="#">Spanning the sample and resolution space of peptide and protein</a>  Annette Langkilde (University of Copenhagen)	14:00
15:30		COFFEE/ TEA EMBL/ILL common hall	COFFEE/ TEA EMBL/ILL common hall	Group [1] on instrument B	Group [3] on instrument B	COFFEE/ TEA EMBL/ILL common hall	15:30
16:00		<b>visit ILL</b>	<b>visit ESRF</b>	Group [2] on instrument C	Group [4] on instrument C	<a href="#">BioSAXS applications</a> Adam Round (ESRF)	16:00
17:30	Registration ESRF entrance hall			Group [3] on instrument D	Group [1] on instrument D	<b>Wrap-up and discussion</b>	17:30
18:00	<b>BUFFET</b> epn campus guesthouse	<b>DINNER</b> epn campus restaurant	Wine and Cheese Poster Session ESRF entrance hall	<b>DINNER</b> epn campus restaurant	<b>DINNER</b> restaurant downtown Grenoble	<b>Conclusions</b>  Farewell cocktail (restaurant cafeteria) <b>DINNER</b> epn campus restaurant	18:00