

Arbeits- und Zeitplan für die Anfertigung der Dissertation: Raul Garcia Diez

Time	Activity
March 2013	Start of my activity in the X-ray Radiometry group in PTB
March-June 2013	Familiarization with concepts about Small-angle Scattering and nanoparticles in suspension: Literature research, training with the experimental technique
June-October 2013	Collaboration with NPL: Characterization of protein-coated nanoparticles by single-contrast SAXS and complementary techniques (DCS, DLS)
August 2013	Publication submitted: "Characterization of IgG-protein-coated polymeric nanoparticles using complementary particle sizing techniques" C. Minelli <i>et al</i> , ECASIA special issue paper (<i>Surf. Interface. Anal.</i>)
Dec 2013-Feb 2014	First experiments using the solvent contrast variation technique and the density gradient capillary with polymeric nanoparticles
April 2014	DPG 2014 - Dresden (Oral Contribution) "Resolving the inner structure of nanoparticles by means of solvent contrast variation in SAXS"
August 2014	Collaboration with MTA: Experiments using the continuous contrast variation technique in SAXS with a liposomal formulation of doxorubicin
September 2014	SNI 2014 - Bonn (Oral Contribution) "Contrast Variation in SAXS by means of a solvent density gradient"
September 2014	Publication submitted: "Nanoparticle characterization by continuous contrast variation in SAXS with a solvent density gradient" R. Garcia-Diez <i>et al</i> (J. Appl. Cryst.)
Nov-Dec 2014	Experiments using the continuous contrast variation technique in SAXS with lipoproteins. Implementation of a short-distance setup (WAXS).
January 2015	NSSM 2015 - Helsinki (Oral Contribution) "Characterization of a liposomal drug carrier with continuous contrast variation in SAXS"
April-May 2015	Collaboration with MTA: Study of the osmotic effects in liposomes
June 2015	Publication submitted: "Size determination of a liposomal drug by SAXS using continuous contrast variation" R. Garcia-Diez <i>et al</i> (Langmuir)
September 2015	SRPS 2015 - Madrid (Oral Contribution) "Characterization of polymeric colloids by continuous contrast variation in SAXS" <i>Prize for the best oral contribution</i>
November 2015	Publication submitted: "Simultaneous size and density determination of polymeric colloids by continuous contrast variation in SAXS" R. Garcia-Diez <i>et al</i> (Eur. Polym. J.)
January 2016	NSSM 2016 - Uppsala (Oral Contribution) "Osmotic effects in liposomes observed with continuous contrast variation in SAXS"
April-May 2016	Collaboration with Lund Uni: catalytic silks studied using anomalous SAXS
June-Nov 2016	Writing of PhD Thesis: "Characterization of nanoparticles by continuous contrast variation in SAXS"

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