

Larry Lüer: Curriculum Vitae

Name: Larry Lüer
Born: 20.09.1965, Leutkirch (Germany)
Married to: Maria Tereza Pires

Current institution

Madrid Institute for Advanced Studies
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Academic Experience and Positions

1996	Diploma in Physical Chemistry at University of Tübingen, Germany
2001	PhD in Physical Chemistry at University of Tübingen, Germany
2001	Marie Curie Individual Fellowship at Politecnico di Milano, Italy
2002	Postdoctoral Fellow at University of Tübingen, Germany
2003-2009	Senior Researcher at CNR-INFM/ULTRAS, Milano, Italy
since 09/2009	Senior Researcher and Ramon y Cajal Fellow at IMDEA Nanociencia, Madrid, Spain

Research Interests

- ☐ Femtosecond spectroscopy in organic materials for photovoltaics: real-time tracing of exciton and charge mobility and charge separation / recombination. Special focus on femtosecond spectroscopy under device operation.
- ☐ Controlled excitation energy transfer and charge transfer in novel materials for electrooptical switching.
- ☐ Advancement of femtosecond spectroscopic methods, towards low irradiation dose, high sensitivity and high spatial resolution.

Research Management

- ☐ Coordinator of Marie Curie Research Training Network "BIMORE" (2006-2011)
- ☐ Management Board of EU project "POLYCOM" (2006-2009)
- ☐ Member of International Advisory Board of "EOS topical meeting" 2008, Paris (France) and ERPOS 2008, Piechovice (Poland)
- ☐ Co-organizer of Symposium of EMRS Spring Meeting 2011 in Nice (France)
- ☐ Co-supervision of PhD and diploma students

- ☞ Referee for OSA, AIP, ACS, and Elsevier journals.
- ☞ Responsible for “Nanophotonics Lab” at IMDEA Nanociencia, member of Spanish National User Labs Network (Redlab)

Research Training network “BIMORE”

Bimore is a network that is composed of 9 European research institutes. Scope is to analyse the elementary pathways for charge and energy transfer in highly efficient biological systems, in order to find novel approaches for artificial systems in the realm of light harvesting and (electro)optical switching. The role of CNR/IFN is to perform femtosecond spectroscopy with ultimate temporal (down to 7 fs) and spatial (down to 300 microns) resolution on the biological as well as synthetical nanostructured compounds that are produced in the network of BIMORE.

Focus capabilities

- Femtosecond spectroscopy to organic materials under device operation at low irradiation intensities. This allows to obtain parameters that are important for device performance under realistic conditions: exciton diffusion length, intrinsic charge mobilities, intrinsic charge carrier yields, and absorption cross-sections for neutral and charged photoexcitations.
- Vectorial energy transfer in bacterial light harvesting complexes, under strict morphology control. The goal is to transfer the detailed working principles to artificial light harvesting systems.
- Profound knowledge of basic spectroscopic techniques (absorption & fluorescence spectroscopy and photoconductivity, both CW and time-resolved), device preparation with controlled morphology by spin coating and vapor deposition, and setup and automation of new spectroscopic lines (photoaction spectroscopy, electroabsorption).
- Experience with a broad range of materials for photovoltaics and other optoelectronic applications. This includes not only femtosecond spectroscopy but also oxygen-induced charge carrier formation and photostability.
- Active further development of femtosecond spectroscopic methods with enhanced sensibility for low-light and low-absorption applications.
- Staff member of CUSBO (part of European large scale facility for advanced optical studies); experience in devising and carrying out guest experiments in femtosecond spectroscopy.

Private Interests

- Listening to and creating music.
- Hiking and mountain climbing.

Publications and Presentations

More than 40 publications in international journals and proceedings, 20 oral presentations on international conferences, 4 of which invited, and contributions to 3 monographs.

Papers in international journals

- [40] H. Hintz, H.-J. Egelhaaf, L. Lüer, Jens Hauch, H. Peisert, T. Chassé, "Photodegradation of P3HT - a systematic study of environmental factors", *Chem. Mater.* (**2011**), in press
- [39] E. A. Obraztsova, L. Lüer, E. D. Obraztsova, A. I. Chernov, D. Brida, D. Polli, G. Lanzani, "Effect of environment on ultrafast photoexcitation kinetics in single-wall carbon nanotubes", *Phys. Stat. Sol.*, published online (**2010**), DOI:10.1002/pssb.201000238
- [38] Larry Lüer, Jared Crochet, Tobias Hertel, Giulio Cerullo, and Guglielmo Lanzani, "Ultrafast Excitation Energy Transfer in Small Semiconducting Carbon Nanotube Aggregates", *ACS Nano* 4(7),4265-4273 (**2010**)
- [37] T. Virgili, L. Lüer, G. Lanzani, G. Cerullo, S. Stagira, D. Coles, A. J. H. M. Meijer, D. G. Lidzey, "The role of intra-molecular dynamics on inter-molecular coupling in J-aggregates", *Phys. Rev. B* 81(12) (**2010**) 125317
- [36] M. R. Antognazza, L. Lüer, D. Polli, R. L. Christensen, R. R. Schrocke, G. Lanzani, G. Cerullo, "Ultrafast excited state relaxation in long-chain polyenes", *Chemical Physics* (**2010**) 373, 115–121
- [34] L. Lüer, S. Hoseinkhani, M. Meneghetti, G. Lanzani, "Dynamical screening of the exciton resonance in conjugated polymers/carbon nanotubes composite", *Physical Review B* 81 (**2010**) 155411
- [33] L. Lüer, G. Lanzani, J. Crochet, T. Hertel, J. Holt, Z. V. Vardeny, "Ultrafast dynamics in metallic and semiconducting carbon nanotubes", *Phys. Rev. B* 80(20) 205411 (**2009**)
- [32] V. Moulisova, L. Luer, S. Hoseinkhani, T. H. P. Brotsudarmo, A. M. Collins, G. Lanzani, R. E. Blankenship, R. J. Cogdell, "Low Light Adaptation: Energy Transfer Processes in Different Types of Light Harvesting Complexes from *Rhodospseudomonas palustris*", *Biophys. J.* 97(11), 3019 – 3028 (**2009**).
- [31] L. Lüer, C. Gadermaier, J. Crochet, T. Hertel, D. Brida, G. Lanzani, "Coherent Phonon Dynamics in Semiconducting Carbon Nanotubes: A Quantitative Study of Electron-Phonon Coupling", *Phys. Rev. Lett.* 102, 127401 (**2009**)
- [30] L. Lüer, S. Hoseinkhani, D. Polli, J. Crochet, T. Hertel, G. Lanzani, "Size and mobility of excitons in (6, 5) carbon nanotubes", *Nature Physics* 5, 54 - 58 (**2009**)
- [29] M. G. Lupo, F. Della Sala, L. Carbone, M. Zavelani-Rossi, A. Fiore, L. Lüer, D. Polli, R. Cingolani, L. Manna, G. Lanzani, "Ultrafast Electron-Hole Dynamics in Core/Shell CdSe/CdS Dot/Rod Nanocrystals", *Nano Lett.* 8 (12), 4582–4587 (**2008**)
- [28] D. Polli, L. Lüer, G. Cerullo, "High-time resolution pump-probe system with broadband detection for the study of time-domain vibrational dynamics", *Rev. Sci. Inst.* 78, 103108 (**2007**)
- [27] R. Pomraenke, C. Ropers, J. Renard, C. Lienau, L. Lüer, D. Polli, and G. Cerullo, "Structural Phase Contrast in Polycrystalline Organic Semiconductor Films Observed by Broadband Near-Field Optical Spectroscopy", *Nano Lett.* 7(4), 998-1002 (**2007**)

- [26] L. Lüer, C. Manzoni, G. Cerullo, G. Lanzani and Z. V. Vardeny, "Intra-chain exciton generation by charge recombination in substituted polyacetylenes", *Chem. Phys. Lett.* 444(1-3) 61-65 (2007)
- [25] L. Lüer, C. Manzoni, G. Cerullo, G. Lanzani, and M. Meneghetti, "Ultrafast dynamics of a charge-transfer dimer as a model for the photoinduced phase transition of charge-transfer compounds", *Phys. Rev. Lett.* 99(2) 027401 (2007)
- [24] C. Vozzi, G. Cirimi, C. Manzoni, E. Benedetti, F. Calegari, L. Lüer, G. Sansone, S. Stagira, S. De Silvestri, M. Nisoli, and G. Cerullo, "High energy self-phase-stabilized pulses tunable in the near-IR by difference frequency generation and optical parametric amplification", *Laser and Particle Beams*, 25(3), 471-479 (2007)
- [23] J. Cabanillas-Gonzalez, T. Virgili, A. Gambetta, L. Lüer, T. D. Anthopoulos and D. M De Leeuw, "Subpicosecond photoinduced Stark spectroscopy in fullerene - based devices", *Phys. Rev. B* 75 (4) 045207 (2007)
- [22] G. Cerullo, C. Manzoni, L. Lüer and D. Polli, "Time-resolved methods in biophysics. 4. Broadband pump-probe spectroscopy system with sub-20 fs temporal resolution for the study of energy transfer processes in photosynthesis", *Photochem. Photobiol. Sci.* 6(2) 135-144 (2007)
- [21] L. Lüer, C. Manzoni, H.-J. Egelhaaf, G. Cerullo, D. Oelkrug, G. Lanzani, "Primary photoexcitations and their interconversion in oligophenylenevinylene nanocrystals: role of excess energy studied with sub-30 femtosecond resolution", *Phys. Rev. B* 73 (1) (2006)
- [20] L. Lüer, H.-J. Egelhaaf, D. Oelkrug, G. Cerullo, G. Lanzani, B.-H. Huisman, D. De Leeuw, "Oxygen-induced quenching of photoexcited states in polythiophene films", *Org. Electronics* 5, 83-89 (2004)
- [19] G. Cerullo, L. Lüer, C. Manzoni, S. De Silvestri, O. Shoshana, S. Ruhman, "Time domain investigation of excited state vibrational motion in organic molecules by stimulated emission pumping", *J. Phys. Chem. A* 107(49), 8839-8344 (2003)
- [18] L. Lüer, H.-J. Egelhaaf, D. Oelkrug, C. Gadermaier, G. Cerullo, G. Lanzani, "Charge Carrier Photogeneration in Oligo(phenylenevinylene) Thin Films - a Quantitative Study", *Phys. Rev. B* 68, 155313 (2003)
- [17] L. Lüer, G. Cerullo, M. Zavelani-Rossi, G. Lanzani, "Probing of bound electron-hole pairs by optical reexcitation in a short-chain oligomer", *Chem. Phys. Lett.* 381, 751-758 (2003)
- [16] T. Virgili, G. Cerullo, L. Lüer, G. Lanzani, C. Gadermaier, D. D. C. Bradley, "Understanding fundamental processes in poly(9,9-dioctylfluorene) light emitting diodes via ultrafast electric field assisted pump-probe spectroscopy", *Phys. Rev. Lett.* 90(24) , 247402 (2003)

- [15] L. Luer, H.-J. Egelhaaf, D. Oelkrug, G. Winter, M. Hanack, A. Weber, H. Bertagnolli, "Oxygen diffusion in alkyl substituted titaniumoxo phthalocyanine films", *Synth. Met.* 138 305-310 (2003)
- [14] J. Gierschner, L. Luer, H. G. Mack, D. Oelkrug, "Fluorescence and absorption spectra of oligophenylenevinylenes: Vibronic coupling, band shapes, and solvatochromism", *J. Chem. Phys.* 116(19) 8596-8609 (2002)
- [13] K.-H. Schweikart, M. Hohloch, E. Steinhuber, M. Hanack, L. Luer, J. Gierschner, H.-J. Egelhaaf, D. Oelkrug, "Highly luminescent oligo(phenylenevinylene) films: the stereochemical approach", *Synth. Met.* 121(1-3), 1641-1642. (2001)
- [12] J. Gierschner, L. Luer, D. Oelkrug, E. Musoglu, B. Behnisch, M. Hanack, "One dimensional coupling of oligophenylenevinylenes in perhydrotriphenylene matrices", *Synth. Met.* 121(1-3) 1695-1696 (2001)
- [11] D. Oelkrug, J. Gierschner, H.-J. Egelhaaf, L. Luer, A. Tompert, K. Mullen, U. Stalmach, H. Meier, "Evolution of optical absorption from small oligomers to ideally conjugated PPV and MEH-PPV polymers", *Synth. Met.* 121 (1-3) 1693-1694 (2001)
- [10] H.-H. Schweikart, M. Hanack, L. Luer, D. Oelkrug, "Synthesis, Absorption and Luminescence of a New Series of Soluble Distyrylbenzenes Featuring Cyano Substituents at the Peripheral Rings", *Eur. J. Org. Chem.*, 2, 293-302 (2001)
- [9] P. Martinez-Ruiz, B. Behnisch, K.-H. Schweikart, M. Hanack, L. Luer, D. Oelkrug, "Tuning of Photo- and Electroluminescence of New Soluble, PPV-Analogous Short Chain Compounds with Naphthalene Moieties", *Chem. Eur. J.*, 6(8), 1294-1301 (2000)
- [8] G. Cerullo, G. Lanzani, S. De Silvestri, H.-J. Egelhaaf, L. Luer, D. Oelkrug, "Primary Photoexcitations in Oligophenylenevinylene Thin Films Probed By Femtosecond Spectroscopy", *Phys. Rev. B*, 62(4), 2429-2436 (2000)
- [7] J. Gierschner, L. Luer, D. Oelkrug, E. Musuoglu, B. Behnisch, M. Hanack, "Preparation and optical properties of oligophenylenevinylene /perhydrotriphenylene inclusion compounds", *Adv. Mat.* 12(10), 757-761 (2000)
- [6] L. Luer, H.-J. Egelhaaf, D. Oelkrug, "Photoconductivity in ultrathin oligo(phenylene vinylene) films during vapor deposition." *Synth. Met.* 119(1-3) 621-622 (2001)
- [5] H.-J. Egelhaaf, L. Luer, A. Tompert, P. Bauerle, K. Mullen, D. Oelkrug, "Fluorescence Anisotropy And Rotational Diffusion of Polyene-like molecules in solution, *Synth. Met.* 115, 63-68 (2000)
- [4] G. Winter, H. Heckmann, P. Haisch, W. Eberhardt, M. Hanack, L. Luer, H.-J. Egelhaaf, D. Oelkrug, "Study of Substituent Effects on the Photoconductivity of Soluble 2,(3)- and 1,(4)-Substituted Phthalocyaninato and Naphthalocyaninato Titanium(IV) Oxides, *J. Am. Chem. Soc.* 120(45), 11663-11673 (1998)

- [3] L. Luer, H.-J. Egelhaaf, D. Oelkrug, "(Photo)conductivity of conjugated oligomer films: mobile charge carrier formation by oxygen", *Opt. Mat.* 9, 454-460 (1998)
- [2] G. Winter, P. Haisch, M. Hanack, L. Luer, H.-J. Egelhaaf, D. Oelkrug, "Soluble Alkyl- and Alkoxy-Substituted Titaniumoxo Phthalocyanines: Synthesis and Photoconductivity", *Adv. Mat.* 9(4), 316-321 (1997)
- [1] H.-J. Egelhaaf, L. Luer, D. Oelkrug, G. Winter, P. Haisch, M. Hanack, "Influence of Oxygen Doping on the Photoconductivity of π -Conjugated Molecules", *Synth. Met* 84(1997) 897-898

Invited talks on international conferences:

- [4] L. Luer, S. Hoseinkhani, J. Crochet, T. Hertel, G. Lanzani, D. Brida, D. Polli, G. Cerullo, "Ultrafast exciton and charge transfer in small aggregates of carbon nanotubes", Photonics West, San Francisco (USA), 26.1.2011
- [3] L. Luer, "Science Communication"; Marie Curie Conference July 2010, Turin, Italy
- [2] L. Luer, S. Hoseinkhani, J. Crochet, T. Hertel, G. Lanzani, "Exciton size and mobility in (6,5) carbon nanotubes", ESP 2007, Santa Fe (NM, USA), October 2007
- [1] L. Luer, C. Manzoni, H.-J. Egelhaaf, G. Cerullo, D. Oelkrug, G. Lanzani, "Investigation of primary photoexcitations in oligophenylenevinylenes using sub-20 fs pump and probe spectroscopy", ICSM04, Wollongong (Australia), July 2004

Contributions to Monographs

- [3] G. Lanzani, L. Luer; "Carbon Nanotubes: Electronic Structure and Spectroscopy", in: *Comprehensive Nanoscience and Technology*, Elsevier B.V. (London) (2011)
- [2] C. Gadermaier, L. Luer, A. Gambetta, T. Virgili, M. Zavelani-Rossi, G. Lanzani, "Photophysics in Semiconducting Polymers: the case of polyfluorene", in: G. Hadzioannou, G. Malliaras (eds.), "Semiconducting Polymers", 2nd edition, (2007).
- [1] T. Virgili, J. Cabanillas-Gonzales, L. Luer, G. Lanzani, "Ultrafast optoelectronic probing of excited states in low dimensional carbon-based conjugated materials", in: "Photophysics of Molecular Materials", G. Lanzani (ed.); Wiley-VCH (2005)

Publications in Conference Proceedings

- [4] L. Luer, C. Manzoni, G. Cerullo, G. Lanzani, M. Meneghetti, "Real-time Investigation of Elementary Steps for Photo-induced Phase Transition in a Model Dimer", in: "Ultrafast Phenomena XV", Springer-Verlag Berlin/Heidelberg (2007)
- [3] T. Virgili, G. Lanzani, G. Cerullo, C. Gadermaier, L. Luer, S. De Silvestri, D. D. C. Bradley, "Charge carrier recombination in conjugated polymers studied by field-assisted

femtosecond spectroscopy”, *Trends in Optics and Photonics* (2002), 72 (Thirteenth International Conference on Ultrafast Phenomena, 2002), 374-375.

- [2] D. Oelkrug, H.-J. Egelhaaf, B. Lehr, J. Gierschner, L. Lüer, P. Matousek, M. Towrie, “Photoinduced absorption studies of the deactivation of excited electronic states in highly ordered films of oligothiophenes” Technical Report - *Council for the Central Laboratory of the Research Councils* (RAL-TR-1999-005), 1999 1-9.
- [1] D. Oelkrug, L. Lüer, H.-J. Egelhaaf, M. Hanack, P. Haisch, H. Heckmann, G. Winter, “Synthesis, photoconductivity and photostability of soluble titaniumoxo phthalocyanines and -naphthalocyanines”, *SPIE* 3144 (1997) 3

Oral presentations on International conferences

- 26.10.2010(Or17) L. Lüer, D. Brida, G. Cerullo, J. Crochet, T. Hertel, and G. Lanzani, “Ultrafast excitation energy transfer in small semiconducting carbon nanotube aggregates”, European Optical Society Annual Meeting, EOSAM 2010, Paris (France)
- 19.7.2010(Or16) L. Lüer, J. Crochet, T. Hertel, G. Cerullo, G. Lanzani, “Ultrafast excitation energy transfer in small carbon nanotube aggregates”, 17th International Conference on Ultrafast Phenomena (UP 2010), Snowmass Village, CO (USA)
- 7.7.2010 (Or15) L. Lüer, D. Brida, G. Cerullo, J. Crochet, T. Hertel, and G. Lanzani, “Real-time study of excitation energy transfer in aggregates of Carbon nanotubes”, ICSM 2010, Kyoto (Japan)
- 7.6.2010 (Or14) L. Lüer, S. Hoseinkhani, J. Crochet, T. Hertel, P. Puschnig, C. Ambrosch-Draxl, G. Lanzani, “Charge carrier dynamics in Carbon nanotubes traced by femtosecond spectroscopy”, EMRS 2010 spring meeting, Strasbourg (France)
- 11.6.2009 (Or13) L. Lüer, G. Lanzani, J. Crochet, T. Hertel, “Excitation energy transfer in small bundles of CoMoCat carbon nanotubes studied by sub-10 fs pump and probe spectroscopy”, *European Materials Research Society – Spring Meeting 2009*, Strasburgo (France)
- 15.07.2008 (Or12) L. Lüer, S. Hoseinkhani, D. Polli, G. Lanzani, “Early photophysics in (6,5) carbon nanotubes studied by femtosecond spectroscopy with few-cycle optical pulses”, ERPOS-11, Piechovice (Poland)
- 9.07.2008 (Or11) L. Lüer, S. Hoseinkhani, D. Polli, G. Lanzani, “Phase space filling in (6,5) carbon nanotubes: real-time tracing of excitonic populations”, ICSM 2008, Porto de Galinhas (Brazil)
- 10.06.2008 (Or10) L. Lüer, J. Crochet, T. Hertel, D. Polli, G. Lanzani, “Evidence for electron correlation in (6,5) carbon nanotubes from pump-probe spectroscopy with broadband pulses”, Ultrafast Phenomena 2008, Stresa (Italy)

- 19.05.2007 (Or9) L. Lüer, S. Hoseinkhani, J. Crochet, T. Hertel, G. Lanzani, "Exciton size and mobility in (6,5) carbon nanotubes", Bunsentagung 2007, Graz (Austria)
- 06.03.07(Or8) L. Lüer, C. Sciascia, C. Gadermaier, G. Lanzani, J. Crochet, T. Hertel, "Tracing exciton formation and relaxation in (6,5)- enriched single walled carbon nanotubes with sub-10 fs resolution," APS March Meeting, Denver, USA (2007)
- 11.09.06(Or7) R. Pomraenke, C. Ropers, J. Renard, C. Lienau, L. Lüer, D. Polli, G. Cerullo, "Observation of structural phase contrast in TiOPc nanocrystals by broadband near-field spectroscopy", NFO9, Lausanne (Switzerland)
- July 2006(Or6) "Primary photoexcitations and their interconversion in oligophenylenevinylene nanocrystals: role of excess energy studied with sub-30 femtosecond resolution", ICSM 2006 Dublin, Ireland
- 03.04.06(Or5) L. Lüer, Cristian Manzoni, Giulio Cerullo, Guglielmo Lanzani, Moreno Meneghetti, "Real-time investigation of the intermolecular breathing mode in TMTTF⁺ dimers and its coupling to electronic transitions", Photonics Europe 06, Strasbourg (France).
- 26.02.04(Or4) L. Lüer, C. Manzoni, H.-J. Egelhaaf, G. Cerullo, D. Oelkrug, G. Lanzani, "Direct observation of decay channels for primary photoexcitations in polycrystalline oligo(phenylenevinylene) films using sub-30 fs pump and probe spectroscopy", *Nano04*, Bologna, Italy
- 11.06.03 (Or3) L. Lüer, H.-J. Egelhaaf, D.Oelkrug, B.-H. Huisman, D. De Leeuw, "Oxygen-induced quenching of photoexcitations in polythiophene films", *European Materials Research Society – Spring Meeting 2003*, Strasburgo (France)
- 21.06.02 (Or2) L. Lüer, H.-J. Egelhaaf, D.Oelkrug, S. De Silvestri, G.Cerullo, G.Lanzani, "Bimolecular singlet exciton annihilation in oligophenylenevinylene thin films", *European Materials Research Society – Spring Meeting 2002*, Strasbourg (France)
- 19.11.01 (Or1) L. Lüer, H.-J. Egelhaaf, D. Oelkrug, S. De Silvestri, G. Lanzani, "Field-induced Charge Carrier Photogeneration in Oligomer PPV Films", *European Conference on Organic Electronics and Related Phenomena 2001*, Potsdam, Germany

Invited Presentations at workshops and seminars

- 12/2008 (W13) "Inter-and intra-tube exciton mobility in carbon nanotubes", Instituto de Ciencia Molecular, Universidad de Valencia (Spain)

- 11/2008 (W12) "Femtosecond spectroscopy in chirally enriched carbon nanotube samples", Department of electrical engineering, Columbia University, New York (USA)
- 11/2008 (W11) "Femtosecond Spectroscopy in Optoelectronic Materials and Devices", Brookhaven National Laboratory, New York (USA)
- 05/2008 (W10) "Femtosecond spectroscopy in low-dimensional organic semiconductors", Institute Seminar of IMDEA center, Madrid (Spain)
- 04/2008 (W9) "Pump-probe spectroscopy with 10 fs resolution in carbon nanotubes", weekly seminar of Vardeny Group, University of Utah, Salt Lake City (UT)
- 05/2007 (W8) "Femtosecond Spectroscopy – an Introduction"; workshop for the Summer School of the Marie Curie network "BIMORE", San Benedetto del Tronto, Italy
- 01/2007 (W7) "Primary photophysical events in low-dimensional carbon-based materials", Theochem Seminar of the Laboratory for Chemistry of Novel Materials, University of Mons-Hainot, Mons (Belgium)
- 06/2005 (W6) "EUROFET/NANOCHANNEL Summer School, Alghero, Sardegna. Invited Tutorial "Optical probes for energy transport in molecular films"
- 12/2003 (W5) EUROFET Meeting, Milano, "Ultrafast probing of photoexcitations in devices"
- 11/2003 (W4) CUSBO User Meeting, "Ultrafast charge carrier generation in oligophenylenevinylenes"
- 06/2003 (W3) "Femtosecond spectroscopy as a method for the characterization of polymer matrices", invited lecturer of the Graduiertenkolleg "Chemistry in Interphases", Tübingen, Germany
- 11/2002 (W2) "Charge Carrier Generation and Recombination in Oligo(phenylenevinylene)s", Marie Curie Workshop "Developing a scientific career", 28. - 30.11.2002, San Sebastian (Spain)
- 12/1999 (W1) "Study of Substituent Effects on the Photoconductivity of Soluble 2,(3)- and 1,(4)-Substituted Phthalocyaninato and Naphthalocyaninato Titanium(IV) Oxides "; Organic Chemistry Seminar of the Research Group D. Wöhrle, University of Bremen / Germany**