A1.5 (S. Linden / M. Wegener)


M. Wegener and S. Linden, *Giving light yet another new twist*, Physics 2, 3 (2009)


Subproject A1.5 Invited Talks at International Conferences (2006-2013)


S. Linden and M. Wegener, *Photonic crystals and metamaterials: Tailoring optical properties*, Symposium on Photonics Technologies for the 7th Framework, Wroclaw (Poland), October 12-14, 2006


G. Dolling, S. Linden, C.M. Soukoulis, and M. Wegener, *Negative-index metamaterials have reached the visible*, 2007 Progress in Electromagnetic Research Symposium (PIERS), Beijing (China), March 26-30, 2007

M. Wegener, *Metamaterials: Magnetism enters photonics*, Spring-Meeting of the German Physical Society (DPG), Regensburg (Germany), March 26-30, 2007


M. Wegener, *Photonic metamaterials: Optics starts walking on two feet*, International Workshop on semiconductor nanostructures SEMINANO, Bad Honnef (Germany), June 13-16, 2007
M. Wegener and S. Linden, Recent Progress on Photonic Metamaterials, 38th Winter Colloquium on the Physics of Quantum Electronics (PQE), Snowbird (U.S.A.), January 6-10, 2008


M. Wegener and G. von Freymann, Progress on Fabrication of Three-Dimensional Nanostructures for Photonics, SPIE International Conference Photonics West, Photonic Crystal Materials and Devices, San Jose (U.S.A.), January 19-24, 2008

M. Wegener, Periodic Nanostructures for Photonics: An Introduction, 403rd International Seminar on Periodic Nanostructures for Photonics, Werner and Else Heraeus Foundation, Bad Honnef (Germany), February 27-29, 2008

M.S. Rill, M. Thiel, G. von Freymann, S. Linden, and M. Wegener, Towards Three-Dimensional Photonic Metamaterials, International Conference on Computational and Experimental Engineering and Sciences (ICCES 08), Honolulu (Hawaii), March 17-22, 2008

M. Wegener, G. von Freymann, and S. Linden, Recent Progress on Photonic Metamaterials, Invited Keynote Talk, SPIE Photonics Europe Congress, Strasbourg (France), April 8-10, 2008

S. Linden, M. Husnik, N. Meinzer, M.W. Klein, M.F.G. Klein, N. Feth, and M. Wegener, Spectroscopy on individual “photonic atoms”, SPIE Photonics Europe Congress, Strasbourg (France), April 8-10, 2008

S. Linden and M. Wegener, Photonic Metamaterials, International Conference on New Frontiers in Micro and Nano Photonics, Florence (Italy), April 23-26, 2008

M. Wegener and S. Linden, Ultrafast Spectroscopy on Photonic Metamaterials, 416th International Seminar on Ultrafast Nanooptics, Werner and Else Heraeus Foundation, Bad Honnef (Germany), June 2-4, 2008


M. Wegener, Photonic Metamaterials: Optics Starts Walking on Two Feet, Invited Plenary Talk, IEEE-LEOS 2008 International Conference on Optical MEMS & Nanophotonics, Freiburg (Germany), August 11-14, 2008

M. Wegener, Photonic Metamaterials: Optics Starts Walking on Two Feet, Invited Plenary Talk, 35th International Symposium on Compound Semiconductors 2008 (ISCS 2008), Rust (Germany), September 21-24, 2008


M. Wegener, Photonic Metamaterials: Optics Starts Walking on Two Feet, Invited Plenary Talk, International Workshop on Computational and Theoretical Nano-Photonics (IWCTNP), Bad Honnef (Germany), December 3-5, 2008


M. Wegener and S. Linden, *Photonic Metamaterials: Recent Progress*, PECS VIII – The 8th International Photonic & Electromagnetic Crystal Structures Meeting, Cockle Bay Warf, Sydney (Australia), April 5-9, 2009


M. Wegener, *Photonic Metamaterials: Recent Progress*, European Quantum Electronics Conference (EQEC) 2009, Munich (Germany), June 14-19, 2009

M. Wegener and S. Linden, *Photonic Metamaterials: Recent Progress*, International Conference on “Surface Plasmon Photonics-4 (SPP4)”, Amsterdam (The Netherlands), June 21-26, 2009


M. Wegener, 3D Chiral photonic crystals and metamaterials, Invited Plenary Talk, 2nd International Conference on “Metamaterials, Photonic Crystals and Plasmonics”, Cairo (Egypt), February 22-25, 2010


M. Wegener, Fabrication and characterization of chiral photonic metamaterials, Invited Tutorial, MRS Spring Meeting, San Francisco (U.S.A.), April 5-9, 2010

M. Wegener, Photonic Metamaterials: Optics Starts Walking on Two Feet, Invited Tutorial, 15th European Conference on Integrated Optics (ECIO’10), Cambridge (United Kingdom), April 7-9, 2010

S. Linden, J.K. Gansel, M. Decker, and M. Wegener, Chiral metamaterials for optical frequencies, SPIE Photonics Europe, Brussels (Belgium), April 12-16, 2010

M. Wegener, Photonic metamaterials go three-dimensional, International Conference on Quantum Electronics and Laser Science (QELS), San Jose (U.S.A.), May 16-21, 2010

M. Wegener, Photonic Metamaterials: Recent Progress, Royal Society Theo Murphy Discussion Meeting on Metallic metamaterials and plasmonics, Kavli Royal Society International Centre for the Advancement of Science, Chicheley Hall (United Kingdom), June 2-3, 2010

M. Wegener, Photonic metamaterials: recent progress, CIMTEC 2010, 5th Forum on New Materials, Montecatini (Italy), June 13-18, 2010


M. Wegener, 3D Photonic Metamaterials and Transformation Optics, IV. International Workshop on Photonic and Electronic Materials, Donostia (San Sebastian, Spain), July 5-7, 2010

M. Wegener, Photonic metamaterials and transformation optics, iNANO International summer school in advanced photonics, Fuglsocenter (Denmark), September 3-7, 2010


N. Stenger, T. Ergin, J.C. Halimeh, and M. Wegener, 3D Optical Carpet Cloak, Fourth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics Metamaterials 2010, Karlsruhe (Germany), September 13-16, 2010


M. Wegener, *Photonic Metamaterials and Transformation Optics: Recent Progress*, Spring-Meeting of the German Physical Society (DPG), Dresden (Germany), March 13-18, 2011

M. Wegener, *3D Photonic Metamaterials and Transformation Optics, Invited Plenary Talk*, International Conference on Nanophotonics (ICNP), Shanghai (China), May 22-26, 2011


M. Wegener, *Photonic Metamaterials: Recent Progress*, 500th International Heraeus Seminar on Highlights of Quantum Optics, Werner and Else Heraeus Foundation, Bad Honnef (Germany), May 7-11, 2012

M. Wegener, *3D Photonic Metamaterials and Transformation Optics, Invited Plenary Talk*, 3M-NANO International Conference, Xi’an (China), August 29 - September 1, 2012


M. Wegener, *Metamaterials and transformation optics, Invited Plenary Talk* (“Festvortrag”), Spring meeting of the German Physical Society (DPG), Berlin (Germany), March 25-30, 2012

M. Wegener, Recent experimental progress in 3D transformation optics and optical metamaterials, 5th GCOE International Symposium on Photonics and Electronics Science and Engineering, Kyoto (Japan), March 9, 2012

M. Wegener, Recent experimental progress on metamaterials, The Tenth International Conference on Photonic and Electromagnetic Crystal Structures (PECS-X), Santa Fe (U.S.A.), June 3-8, 2012

M. Wegener, Recent experimental progress on transformation media, Invited Plenary Talk, The 9th International Conference on Electrical, Transport and Optical Properties of Inhomogeneous Media (ETOPIM 9), Marseille (France), September 2-7, 2012

M. Wegener, Optical and mechanical metamaterials, Invited Keynote Talk, 19th International Conference on Computational and Experimental Engineering and Sciences (ICCES'12), Crete (Greece), April 30 - May 4, 2012


M. Wegener, Three-dimensional photonic metamaterials, International Workshop on Nanophotonics, Trieste (Italy), December 3-7, 2012

M. Wegener, Metamaterials for Transformation-Physics, International Student Conference on Microtechnology, Freiburg (Germany), October 8-14, 2012

M. Wegener, Recent progress on metamaterials for transformation physics, The 4th International Topical Meeting on Nanophotonics and Metamaterials, NANOMETA2013, Seefeld (Austria), January 3-6, 2013


M. Wegener, Photonic Metamaterials, 6th Annual Meeting on Photonic Devices, Zuse-Institut Berlin ZIB (Germany), February 21-22, 2013


M. Wegener, Transformation materials for optics, elastodynamics, and thermodynamics, International workshop “Controlling the propagation of waves in complex media: from shaping wavefields to designing smart materials”, Cargese, Corsica (France), May 27 - June 1, 2013

M. Wegener, *Photonic Metamaterials and Transformation Optics*, International Summer School on “Nanostructures for optics and photonics”, Advanced Study Institute, Ettore Majorana Centre, Erice (Italy), July 4-19, 2013


M. Wegener, *Spectroscopy on individual metamaterial building blocks*, MRS Fall Meeting, Boston (U.S.A.), December 1-6, 2013