

CURRICULUM VITAE
Costas M. Soukoulis

<http://cmp.physics.iastate.edu/soukoulis/>
<http://www.researcherid.com/rid/A-5295-2008>

Address:

Ames Laboratory and Dept. of Physics
Iowa State University
Ames, Iowa, 50011, USA
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Education:

University of Athens, Athens, Greece.
B.S. Physics. 1969 -1974
University of Chicago, Chicago, Illinois.
MS Physics. 1975
Ph.D. Physics. 1978

Positions:

Frances M. Craig Chair Professorship, Iowa State University, since July 2007
Distinguished Professor of Liberal Arts and Sciences, Iowa State University, since July 2005
Senior Scientist, Ames Laboratory and Department of Physics, Iowa State University, July 1990-present
Courtesy Appointment, Department of Materials Science and Engineering, Iowa State U., since July 2014
Courtesy Appointment, Department of Electrical and Computer Engineering, Iowa State U., since July 2007
Professor (part time), Department of Materials Science and Technology, Univ. of Crete, 12/2001 - 05/2011
Professor of Physics, Department of Physics, Iowa State University, July 1990-2005
Scientist and Associate Professor of Physics, Ames Laboratory and Department of Physics, Iowa State University, July 1986-June 1990
Associated Faculty, IESL-FORTH, Heraklion, Crete, Greece, since September 1984
Associate Scientist and Assistant Professor of Physics, Ames Laboratory and Department of Physics, Iowa State University, August 1984-June 1986
Research Physicist, Corporate Research Science Labs, Exxon Research and Engineering Company, June 1981-July 1984
Visiting Assistant Professor, Department of Physics, University of Virginia, September 1978-May 1981
Research Associate, Department of Physics and the James Franck Institute, University of Chicago, May 1978-August 1978
Research and Teaching Assistant, Department of Physics and the James Franck Institute, University of Chicago, September 1974-May 1978

Professional Honors/Awards:

Fellow of the American Physical Society, 1991.
Fellow of the American Association for the Advancement of Science, 2002.
Fellow of the Optical Society of America, 2003.
Alexander Von Humboldt Fellowship, 1991.
Energy 100 Award and Science 100 Award, U. S. Dept. of Energy.

Outstanding Scientific Accomplishment in Solid State Physics (DOE Materials Sciences Division), 1992.
Liberal Arts and Sciences (LAS) Excellence in Research Award, ISU 2000.
Iowa State University (ISU) Outstanding Achievement in Research, 2001.
Humboldt Research Award for Senior U.S. Scientists, 2002.
Iowa State University (ISU) awarded the title of Distinguished Professor of Liberal Arts and Sciences 2005.
Descartes Prize for Research of Metamaterials, European Union, 2005.
Honorary Doctorate from Vrije University in Brussels, Belgium, May 2011.
James C. McGroddy Prize for New Materials, American Physical Society, 2013.
Max Born Award, Optical Society of America, 2014.
Highly Cited Researchers published by Thomson-Reuters, 2014, 2015 & 2016.
Rolf Landauer Medal, ETOPIIM International Association, 2015.

Research Interests:

Development of theoretical understanding of the properties of disordered systems, with emphasis on electron and photon localization, photonic band gaps, left handed materials, random lasers, spin glasses, random fields, superconductivity, and the effects of disorder on nonlinear systems. The understanding of the electronic and transport properties of amorphous semiconductors is also a major effort.

Citations per year:

Total number of citations with citations to the journals

as of December 31, 2010 **16973**
as of December 31, 2011 **19111**
as of December 31, 2012 **21547**
as of December 31, 2013 **23892**
as of December 31, 2014 **26174**
as of December 31, 2015 **28355**
as of December 31, 2016 **30824**

Another index to quantify on individual's scientific research output is the so-called h-index, defined as the number of papers with citation number higher or equal to h. (see the following references about the h-index, <http://www.sciencemag.org/cgi/reprint/309/5738/1181c.pdf> , <http://xxx.lanl.gov/pdf/physics/0508025> and J. E. Hirsch, *Proc.Nat.Acad.Sci.* **46**, 16569 (2005))

The h-index for Prof. Soukoulis is 90, and 93 if his citations to his books are counted.

All of the above information about citations was obtained from the Web of Science.

Publications:

He has over 380 refereed publications, and has published extensively (45 manuscripts) in *Physical Review Letters (PRL)*, the premier letters journal in the world for important discoveries in physics and in *Applied Physics Letters*, *Optics Letters*, and *Optics Express* the leading letters journals for important discoveries in applied physics and optics respectively. He has also published in *Science*, *Nature*, *Nature Photonics*, *Nature Materials* and *Nature Communications*.

Teaching Experience:

Have taught one major graduate or undergraduate course per semester since 1984 at Iowa State University and University of Virginia. These include modern physics, condensed matter physics, statistical physics, optics and photonic crystals, and general physics.

Invited Review Articles, Popular Articles and Other Papers:

1. C. M. Soukoulis and E. N. Economou, "Electron States, Localized," in *Encyclopedia of Applied Physics; Vol. 5*, ed. by G. Trigg, VCH Publishers, New York (1993), p. 549-570.
2. C. M. Soukoulis, "Photonic Crystals," in *McGraw-Hill Yearbook of Science and Technology*, 1997, p.363
3. K. Busch and C.M. Soukoulis, "Effective medium and Coherent Potential Approximation," *Springer tracts in modern physics* **144**, chapter 3 (1998).
4. M. M. Sigalas, K. M. Ho. C. M. Soukoulis, R. Biswas and G. Tuttle, "Photonic Crystals," in *Wiley Encyclopedia of Electrical and Electronics Engineering; Vol. 16*, ed. By J. G. Webster, J. Wiley, New York (1999), p. 345-359.
5. M. Sigalas, K. M. Ho, R. Biswas and C. M. Soukoulis, "Photonic Crystals," in *Optics of Nanostructured Materials*, J. Wiley, New York (2001), p.1.
6. C. M. Soukoulis and E. N. Economou, "Solid State Physics," in *AIP Physics Desk Reference*, Springer Verlag, New York (2003), p. 725.
7. E.N. Economou and C. Soukoulis, "Disorder and Localization Theory," article in the six volumes *Encyclopedia of Condensed Matter Physics*, Eds F. Bassani, G.L. Liedl, and P. Wyder. Elsevier (2005) Vol. 1, p. 444.
8. M. Kafesaki and C. M. Soukoulis, "A Historical Perspective and A Review of the Fundamental Principles in Modeling 3-D Periodic Structures with an Emphasis on volumetric EBGs," in *Electromagnetic Metamaterials: Physics and Engineering Aspects*, J. Wiley, New York (2006).
9. C. M. Soukoulis, "Bending Back Light: The Science of Negative Index Materials," *Optics and Photonic News*, June 2006.
10. M. Kafesaki, Th. Koschny, C. M. Soukoulis and E. N. Economou, "Designing one-, two-, and three-dimensional left-handed materials," in *Theory and Phenomena of Metamaterials*, CRC Press, Taylor & Francis Group, Boca Raton, Florida (2009).
11. C. M. Soukoulis, "Greece in crisis," *Nature Materials* **12**, 683 (2013).
12. P. Tassin, Th. Koschny and C. M. Soukoulis, "Classical Analog of Electromagnetically Induced Transparency," in *Metamaterials and Wave Control*, Wiley (2013).
13. P. Tassin, Th. Koschny and C. M. Soukoulis, "Dissipative Loss in Resonant Metamaterials," in *Metamaterials and Wave Control*, Wiley (2013).
14. P. Tassin, T. Koschny, and C. M. Soukoulis, in *Nonlinear, Tunable and Active Metamaterials*, Ed. by I. V. Shadrivov, M. Lapine and Y. S. Kivshar, Springer-Verlag Berlin, Berlin, 2015, 303-319.

Discussion of our work in scientific journals and web sites:

1. "A Novel Architecture of Excluding Photons," *Science News* **144**, 199 (1993).
2. "Using Micro fabrication Techniques on Photonic Bandgap Structures," *Optics & Photonics News*, March 1994, p. 52.

3. "Light Gets the Bends in a Photonic Crystal," *Science News* **150**, 309 (1996).
4. "Infrared Photonic Crystals Fabricated using Deep x-ray Lithography," *Optical Engineering Reports*, January 1998, p.7.
5. "Visible Progress Made in three-dimensional Photonic Crystals," *Physics Today*, January 1999, p. 17.
6. "Mind the gap and Bright Switch," *Wired Magazine*, November 2000. (<http://www.wired.com/wired/archive/8.11/rants.html>).
7. "Random acts of brightness: From disordered systems comes coherent light," December 2000. (<http://www.eurekalert.org/features/doi/2000-12/dl-rao060502.php>)
8. "Laser beams from scattered light – The big surprise," May 2001 (<http://www.external.ameslab.gov/Final/News/2001rel/01laserbeams.html>)
9. "Paint the town red: Want to brighten up your life? Grab a brush and a tin of laser paint," *New Scientist*, 30 June 2001, p. 23.
10. "Costas Soukoulis honored by American Association for the Advancement of Science," November 2002. (<http://www.las.iastate.edu/newnews/soukoulis.shtml>).
11. "Good news for negative index materials," *PhysicsWeb*, March 2003. (<http://physicsweb.org/article/news/7/3/12>).
12. "Left handed but not in left field," *Science*, **299**, 1947 (March 28, 2003). (<http://www.sciencemag.org/cgi/reprint/299/5615/1947b.pdf>).
13. "The reality of negative refraction," *Physics World*, May 2003. (<http://physicsweb.org/article/world/16/5/3>).
14. "Positively Negative," *Nature*, **423**, 22 (May 1, 2003).
15. "Constantly throughout his career, Costas Soukoulis has been recognized for his professional work," March 2003. (<http://www.las.iastate.edu/newnews/soukoulis0324.shtml>)
16. "Recent results support the existence of negative refraction," *Materials Research News*, May 2003. (<http://www.mrs.org/geninfo/enevs/enevs200305.html#resnews>)
17. "New possibilities through negative refraction," *Optics and Photonic News*, August 2003.
18. "Light at the end of the tunnel," *Physical Review Focus*, March 2004. (<http://focus.aps.org/story/v13/st11>).
19. "Ames Lab. Physicist wins European's Union highest science prize," December 2005 (<http://www.external.ameslab.gov/final/News/2005rel/Descartesaward.htm>)
20. "2005 European Union Descartes prize for research laureates," December 2005. (http://europa.eu.int/comm/research/press/2005/pdf/pr02122005_annex_winners_dp_research2005_en.pdf)
21. "Smith Shares Descartes Award for Artificial Material that Reverses Light's Properties," December 2005. (<http://www.pratt.duke.edu/news/releases/index.php?story=239>)
22. "Former UCSD Physicist Shares Descartes Award for Material that Reverses Light's Properties," December 2005. (<http://ucsdnews.ucsd.edu/newsrel/science/mcdescartes.asp>)

23. "Reversing and accelerating the speed of light," (<http://www.ameslab.gov/final/News/2006rel/metamaterials.htm>)
24. "Reversing and accelerating the speed of light," (<http://www.sciencedaily.com/releases/2006/07/060721152533.htm>)
25. "Light goes faster in reverse," (http://www.theregister.co.uk/2006/07/24/laser_metamaterial/)
26. "Hacking the speed of light," (http://www.scienceagogo.com/news/20060623201434data_trunc_sys.shtml)
27. "Metamaterials found to work at optical wavelengths," <http://www.ameslab.gov/final/News/2007rel/metamaterials.htm>
28. "Metamaterials found to work for visible light," <http://www.physorg.com/news87144852.html>
29. "Fishnet metamaterial with negative refraction," http://www.medgadget.com/archives/2007/01/fishnet_metamat.html
30. "Metamaterials for cloaking gain visibility," <http://www.eetimes.com/news/latest/showArticle.jhtml?articleID=196801564>
31. "Telecom triumph," <http://www.nature.com/nphoton/journal/vsample/nsample/full/nphoton.2006.3.html>
32. "Photonic Frontiers: metamaterials - Metamaterials do optical wonders," http://lfw.pennnet.com/articles/article_display.cfm?article_id=259931
33. "Voilà! Cloak of Invisibility Unveiled," <http://www.sciencemag.org/cgi/content/full/314/5798/403?maxtoshow=&HITS=10&hits=10&RES ULTFORMAT=&fulltext=cloak&searchid=1&FIRSTINDEX=0&resourcetype=HWCIT>
34. "Visible Light Enters the Bizarro World," <http://sciencenow.sciencemag.org/cgi/content/full/2008/811/2>
35. "Metamaterials could reduce friction in nanomachines," <http://www.nanowerk.com/news/newsid=13890.php>
36. "Ames Laboratory Researchers Predict A Repulsive Casimir Effect Using Exotic Chiral Metamaterials," <http://www.nanotechwire.com/news.asp?nid=9100>
37. "Next Wave of Metamaterials: Hope to Fuel the Revolution," *Science* **327**, 139 (2010).
38. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://www.news.iastate.edu/news/2010/dec/metamaterials>
39. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," http://www.eurekaalert.org/pub_releases/2010-12/isu-isa121510.php
40. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://www.photonicsonline.com/article.mvc/iowa-State-Ames-Lab-Physicist-Developing-0001?VNETCOOKIE=NO>
41. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," http://www.sciencecodex.com/iowa_state_ames_lab_physicist_developing_improving_designer_optical_materials

42. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://iowahighereducation.com/2010/12/iowa-state-ames-lab-physicist-developing-improving-designer-optical-materials/>
43. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://www.sciencecentric.com/news/10121817-iowa-state-ames-lab-physicist-developing-improving-designer-optical-materials.html>
44. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://www.physorg.com/news/2010-12-physicist-optical-materials.html>
45. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," http://www.spacedaily.com/reports/Physicist_Developing_And_Improving_Designer_optical_Materials_999.html
46. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://www.physnews.com/materials-news/cluster121417455/>
47. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://press-news.org/16094-iowa-state-ames-lab-physicist-developing-improving-designer-optical-materials.html>
48. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://www.matternews.com/>
49. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://ebionews.com/news-center/research-frontiers/bio-chip-a-nanotechnology/30890.html>
50. "Iowa State and Ames Lab physicist developing, improving designer optical metamaterials," <http://esciencenews.com/topics/physics.chemistry>
51. "Conductors for Optics," Interview for Nature Photonics. <http://www.nature.com/nphoton/journal/v6/n4/full/nphoton.2012.67.html>
52. "Nano Focus: Figures of merit developed for conductors in metamaterials and plasmonics," <http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=8573113>
53. "Improving on the amazing: Ames Laboratory scientists seek new conductors for metamaterials," <http://nextbigfuture.com/2012/04/improving-on-amazing-ames-laboratory.html>
54. "Metamaterials step into light," <http://spectrum.ieee.org/semiconductors/optoelectronics/metamaterials-step-into-the-light>

Patents

K.M. Ho, C.T. Chan, and C.M. Soukoulis, *Periodic Dielectric Structures for Production of Photonic Band Gaps and Devices Incorporating the Same*, U.S. Patent 5,335,240.

K.M. Ho, G.L. Tuttle, E. Michel, R. Biswas, C.T. Chan, C.M. Soukoulis and E. Ozbay, *Periodic Dielectric Structure for Production of Photonic Band Gaps and Method for Fabricating the Same*, U.S. Patent 5,406,573.

C. M. Soukoulis, J. Zhou, T. Koschny, Lei Zhang and G. L. Tuttle, *Structures with Negative Index of Refraction*, U.S. Patent 8,054,146.

P. Tassin, T. Koschny and C. M. Soukoulis, *Dispersion Management with Metamaterials*, U.S. Patent 9,588,255.

Liang Luo, Jigang Wang, T. Koschny, M. Wegener, C. M. Soukoulis, *Broadband THz Generation of Metamaterials*, U.S. Patent pending.

Grants Received (Non-Ames Lab)

Research Corporation, Amount \$10,500; Funding date: October 31, 1984

North Atlantic Treaty Organization (NATO), travel grants since 1985 (with E. N. Economou)

Electric Power Research Institute (EPRI), Amount: \$146,520 for three years
Funding date: February 20, 1989 (with Rana Biswas)

NSF Supercomputer Grant of 200 hours per year of CRAY-XMP time since 1987 (with Rana Biswas)

NSF (US-Greece Cooperative Science Program), Amount: \$16,000. Funding dates: May 1, 1992 - October 31, 1994.

NATO, award for organizing a NATO Advanced Research Workshop. Amount: \$35,000 (May 1992).

Department of Energy (Advanced Energy Projects) Amount \$909,605. Funding dates:
Jan 1, 92 - Dec 31, 94 (with K. M. Ho, C. T. Chan, G. Tuttle)

Department of Education (FIPSE-Higher Education Collaboration), Amount: \$80,000 (with
Rutgers, Courant Inst., Texas-Austin), Funding dates: Nov. 1, 1993 - Oct. 31, 1995.

Iowa Energy Center, Amount \$95,668. Funding dates: July 1, 1993 - June 30, 1995 (with
Rana Biswas)

NATO, award for organizing a NATO ASI. Amount \$75,000 (June 1995)

Army Research Office, Amount: \$96,031, (subcontract with UC Santa Barbara). Funding dates:
9/1/97-4/31/00.

NATO, award for organizing a NATO ASI, Amount: \$75,000, Funding date: June 2000

NSF (US-Greece Cooperative Science Program), Amount: \$23,000. Funding dates: February 1, 2001 -
January 31, 2003.

DARPA, Amount: \$216,000 (subcontract with Boeing). Funding Dates: June 1, 2001- May 31, 2005.

NATO, award for organizing a NATO ARW. Amount \$35,000 (June 2005).

DARPA, Amount: \$150,000 (subcontract with Boeing). Funding dates: June 1, 2005 - May 31, 2007.

MURI, US Air Force: \$494,986. Funding dates: May 1, 2006 - April 30, 2011.

ONR, US Navy: \$284,387, Funding dates: January 1, 2007 - December 31, 2009.

DARPA, Amount \$180,000 (subcontract with Boeing). Funding dates June 1, 2007- May 31, 2009.

ONR, US Navy: \$330,000, Funding dates: October 1, 2010 - September 31, 2013.

ONR, US Navy: \$400,711, Funding dates: June 1, 2014 - September 31, 2017.

Presently, I have three DOE grants within the Ames Laboratory. One is for our work, both theory and experiment, on Photonic Crystals (\$150,000/yr), the second is on Metamaterials (\$642,000/yr), and the third one is on Wave Propagation in Random Media (\$30,000/yr).

EDITORIAL ACTIVITIES:

Referee on the average 10-15 papers per year for *Phys. Rev. Lett.*, *Phys. Rev. B* and *E*, *J. of Phys.*, *Nature*, *Science*, *Optical Society of America*, *Appl. Phys. Lett.* and *others*.

Referee on the average 5-10 proposals per year for *NSF*, *DOE*, *European Community* and the *Greek Research and Development program*.

Editor of the book "*Photonic Band Gaps and Localization*," Plenum Publ. (1993).

Editor of the book "*Photonic Band Gap Materials*," Kluwer Publ. (1996).

Editor of the book "*Photonic Crystals and Light Localization in the 21st Century*," Kluwer Publ. 2001

Editor of the special volume of *Physica B* in honor of Professor Economou's 60th birthday, 2001

Co-editor of the MRS conference proceedings on "*Photonic Crystals: From materials to Devices*," 2002

Co-editor of the special issue of *JOSA B* on "*Localization, multiple-scattering and lasing in random nanomedia*," published in January 2004.

Co-founder and member of the organizing committee of the "*Photonic and Electromagnetic Crystal Structures (PECS-I)*," conference. This is the official conference for the Photonic Crystals field.

Invited by the editors of *Physics Reports* to write a review on *Photonic Crystals* in June 2002 (declined).

Invited by the editors of the AIP to write a review article on *Solid State Physics* published in the AIP Physics DESK REFERENCE in 2003.

Invited by the editors of *Review of Modern Physics* to write a review on *Left-handed Materials* in January 2004 (declined).

Senior Editor of the new Journal "*Photonic Nanostructures: Fundamentals and Applications*" (2002-2013)

Editor of the Journal "*Optics Letters*" (2008-2011)

Member of editorial board of *Physical Review Letters* (2012- 2015).

Editorial Advisory Board, "*Laser & Photonics Reviews*" (2013 -)

Professional Involvement:

Session chairman, American Physical Society Meeting, March 1982, 1989 and 1992, 2000, 2004, 2012.

Session chairman, Gordon Conference on Quantum Liquids and Solids, July 1987.

Member, Faculty Evaluation Committee of the Physics Department, University of Crete, 1987, 1988, 2000.

Chairman, Faculty Search Committee for the Research Center of Crete, Heraklion, Crete, 1989.

Panel review of the Materials Synthesis and Processing, Materials Theory Program, NSF, April 1992.

Director of the NATO Advanced Research Workshop on "*Localization and Propagation of Classical Waves in Random and Periodic Structures*," held in Aghia Pelagia, Heraklion, Crete on May 26-30, 1992.

Director of the NATO Advanced Study Institute on "*Photonic Band Gap Materials*," held in Elounda, Crete on June 19-30, 1995.

Director of the NATO Advanced Study Institute on "*Photonic Crystals and Light Localization*," held in Hersonissos, Crete on June 19-30, 2000.

Director of the "*Wave Propagation and Electronic Structure in Disordered Systems*," a 60th Birthday Symposium in Honor of E. N. Economou, Heraklion, Crete, Greece, June 16-18, 2000.

Chairman, Search Committee for the Director of the Institute of Theoretical and Physical Chemistry, National Hellenic Research Foundation, Athens, Greece, July 1997, and December 2001.

Member of the organizing committee of the "*Photonic and Electromagnetic Crystal Structures (PECS-III)*," conference, St. Andrews, Scotland, June 2001.

Member of the organizing committee of the MRS symposium on "*Photonic Crystals: From Materials to Devices*," San Francisco, CA, April 2002.

Panel review of the Ministry of Education of Greece to evaluate the undergraduate and graduate physics programs, May 1997, December 2001 and December 2002.

Panel review of the European Community to evaluate Physics and Engineering proposals, 1999 - 2003.

Member of the organizing committee of the "*Photonic and Electromagnetic Crystal Structures (PECS-V)*," conference, Kyoto, Japan, March 2004.

Member of the program committee of CLEO/IQEC 2004, San Francisco, CA, USA, May 16-21, 2004.

Chairman of the organizing committee of the "*Photonic and Electromagnetic Crystal Structures (PECS-VI)*," conference, Aghia Pelagia, Crete, Greece, June 19-24, 2005.

Member of the Committee to review the scientific program of CUDOS, an Australian Research Council Center of Excellence, Sydney, Australia, July 2005.

Co-chairman of the organizing committee of the "*SPIE Congress on Optics and Optoelectronics: Metamaterials*," Warsaw, Poland, August 28-September 2, 2005.

Member of the Committee to review the scientific program of CUDOS, an Australian Research Council Center of Excellence, Sydney, Australia, August 2006.

Co-chairman of the organizing committee of the "*Photonic and Electromagnetic Crystal Structures (PECS-VII)*," conference, Monterey, California, USA, April 8-11, 2007.

Conference Co-Chair, *Photonics: Design, Technology and Packing*, SPIE Microelectronics, MEMS and Nanotechnology, Canberra, Australia, December 5-7, 2007.

Member of Scientific Advisor Committee, *NATO Advanced Research Workshop: Metamaterials for Secure Information and Communication Technologies*, Marrakesh, Morocco, May 7-10, 2008.

Member of the program committee of the *ICO 21 - International Commission of Optics on Optics for the 21st Century*, Sydney, Australia, July 7-10, 2008.

Chair of the organizing committee of the "*XXIV Panhellenic Conference on Solid State Physics & Materials Science*," Fodele, Crete, Greece, September 21-24, 2008.

Chair of the Metamaterials External Advisory Board of Sandia National Laboratory 2008-2011.

Member of the program committee of the Optical Society of America Meeting on Plasmonics and Metamaterials 2008, Rochester, New York, USA, October 19-23, 2008.

Member of the organizing committee of the *“Photonic and Electromagnetic Crystal Structures (PECS-VIII),”* conference, Sydney, Australia, April 2009

Co-chairman of the organizing committee of the *“Electrical Transport and Optical Properties of Inhomogeneous Media (ETOPIM-8)”* conference, Rethymnon, Crete, Greece, June 7-12, 2009.

Member of the organizing committee of the *“Photonic and Electromagnetic Crystal Structures (PECS-IX),”* conference, Granada, Spain, September 2010.

Member of the International Advisory Panel of the AMADEus at the University of Bordeaux, 2012-

Member of the organizing committee of the *“Photonic and Electromagnetic Crystal Structures (PECS-X),”* conference, Santa Fe, New Mexico, USA, June 2012.

Member of the Committee to review the scientific program of CUDOS, an Australian Research Council Center of Excellence, Melbourne, Australia, February 2014-.

Panel review of the Materials Synthesis and Processing, Materials Theory Program, NSF, April 2016.

PH.D. STUDENTS

| | |
|--------------------|---|
| Qiming Li | (1985) Graduated 1989, Researcher, Schlumberger, TX |
| Yi Wan | (1985) Graduated 1991, Financial Consultant, San Francisco |
| Inhee Kwon | (1987) Graduated 1992, Scientist, Seoul National University |
| Sreela Datta | (1989) Graduated 1994, Software Engineer, Ford Company, Detroit |
| G. Kopidakis | (1990) Graduated 1995, Associated Professor, University of Crete |
| E. Lidorikis | (1995) Graduated 1999, Associated Professor, University of Ioannina |
| M. Ifti (Master) | (1996) Transferred to Univ. of British Columbia |
| X. Wang | (1996) Graduated 1998, Science Writer |
| M. Ruehlander | (1997) Graduated 2001, Software Engineer, Pandatel AG, Germany |
| X. Jiang | (1997) Graduated 2001, Professor, Fudan University, China. |
| S. Foteinopoulou | (1998) Graduated 2003, Lecturer, Univ. of Exeter, UK |
| X. Ma (Master) | (1999) Transferred to Computer Engineering, ISU |
| Lei Zhang | (2002) Graduated 2007, Assistant Scientist III, Ames Laboratory |
| Jiangfeng Zhou | (2003) Graduated 2008, Assistant Professor, Univ. of South Florida, USA |
| Anan Fang | (2004) Graduated 2010, Postdoc at Hong Kong Univ. of Science & Technology |
| Weitao Dai | (2004) Graduated 2009, Postdoc at MIT, Cambridge, MA |
| Lili Peng (Master) | (2005) Graduated 2007, Financial advisor, New York |
| Bingnan Wang | (2005) Graduated 2009, Researcher, Mitsubishi Electric Lab, Cambridge, MA |
| Aditya Jain | (2011) Graduated 2016 Postdoc at Univ. California at Santa Barbara |
| Peng Zhang | (2012) |

I have also been co-advising the following Ph.D. Students:

- K. Busch, graduated from U. of Karlsruhe in 1997, now at Humboldt Univ., Germany (Full Professor)
- I. Zambetaki (Crete), graduated in 1997, now with the National Technical Univ. of Crete
- S. Katsoprinakis (Crete) graduated with Master. Transferred to the EE Dept. of Imperial College
- Mario Agio (Pavia), graduated in 2003, now at University of Siegen, Germany (Full Professor)
- Tamara Gundogdu (Crete) graduated in 2009, now at Bilkent University, Ankara, Turkey
- Rongkuo Zhao (China) graduated in 2011, now at University of UC Berkeley, USA (Post-doc)

Current post-docs

- Babak Dastmalchi (Crete/ISU)
- Sotiris Droulias, Anna Tasolamprou, George Kenanakis, Alireza Akbarzadeh, Odysseas Tsilipakos (Crete)

Former post-docs

- Rana Biswas (Ames Lab), M. Sigalas (Univ. of Patras, Greece), S. Foteinopoulou (Univ. of Exeter, UK)
- Rabia Moussa (Univ. of Texas at Dallas, TX), M. Kafesaki (Univ. of Crete, Greece), M. Diem (The Boston Consulting Group, Germany), Qiming Li (Researcher, Schlumberger, TX), Durdu Guney (Michigan Technological University), Philippe Tassin (Chalmers University, Sweden).

Assistant Scientist III, Ames Laboratory

- Lei Zhang, Nian-Hai Shen

Invited Talks:

1. K. Levin, C. M. Soukoulis and G. S. Grest, 24th Conference on Magnetism and Magnetic Materials, Cleveland, Ohio, U.S.A. (1978).
2. G. S. Grest, C. M. Soukoulis and K. Levin, 5th EPS School on Materials, Magnetic Phase Transitions, Erice, Italy, July 1983.
3. C. M. Soukoulis, K. Levin and G. S. Grest, Workshop on the Physics of Disordered Systems, Institute for Theoretical Physics, University of California, Santa Barbara, California, U.S.A., August 1983.
4. M. H. Cohen, E. N. Economou and C. M. Soukoulis, *10th International Conference on Amorphous and Liquid Semiconductors*, Tokyo, Japan, August 1983.
5. G. S. Grest, C. M. Soukoulis and K. Levin, *29th Conference on Magnetism and Magnetic Materials*, Pittsburgh, Pennsylvania, U.S.A., November 1983.
6. C. M. Soukoulis, International Seminar on *Localization in Disordered Systems*, Johnsbad/ Glashutte near Dresden, East Germany, December 1983 (invitation not accepted).
7. C. M. Soukoulis, *12th Midwest Solid Theory Symposium*, University of Minnesota, Minneapolis, Minnesota, U.S.A., September 1984.
8. C. M. Soukoulis, *32nd Annual Midwest Solid State Conference*, University of Nebraska, Lincoln, Nebraska, U.S.A., November 1984.
9. C. M. Soukoulis, *March Meeting of the American Physical Society*, Baltimore, Maryland, U.S.A., March 1985.
10. C. M. Soukoulis, NATO Advanced Study Institute on *Hydrogen in Disordered and Amorphous Solids*, Rhodes, Greece, September 1985.
11. C. M. Soukoulis, *Greek-Soviet Workshop on Solid State Physics*, Crete, Greece, December 1985.
12. C. M. Soukoulis, *1st International Workshop on Non-Crystalline Solids*, Sant Feliu de Guixols (Costa Brava), Spain, May 1986.
13. C. M. Soukoulis, *Conference on Glassy Dynamics and Optimization*, Heidelberg, West Germany, June 1986.
14. C. M. Soukoulis, *Conference on Disorder and Nonlinearity*, Los Alamos National Laboratory, New Mexico, May 1988.
15. C. M. Soukoulis, *SIAM Workshop on Random Media and Composites*, Xerox Training Center, Leesburg, Virginia, December 1988.
16. C. M. Soukoulis, *2nd International Workshop on Non-Crystalline Solids*, San Sebastian, Basque Country, Spain, July 1989.
17. C. M. Soukoulis, EEC Workshop on *Electronic Properties of Amorphous Semiconductors*, Grenoble, France, July 1989.
18. C. M. Soukoulis, NATO Advanced Study Institute *on the Science and Technology of Nanostructured Magnetic Materials*, Crete, Greece, June 1990.

19. C. M. Soukoulis, *6th General Conference of the Greek Solid State Physics Division*, Crete, Greece, September 1990.
20. C. M. Soukoulis, *19th Midwest Solid State Theory Symposium*, Michigan State University, East Lansing, Michigan, U.S.A., October 1991.
21. C. M. Soukoulis, *Workshop on the Development and Application of Photonic Band Gap Structures*, Park City, Utah, U.S.A., January 1992.
22. C. M. Soukoulis, NATO ARW on the *Localization and Propagation of Classical Waves in Random and Periodic Structures*, Crete, Greece, May 1992. (**Director**)
23. C. M. Soukoulis, *March Meeting of the American Physical Society*, Seattle, Washington, USA, March 1993.
24. C. M. Soukoulis, NATO Advanced Study Institute on *Nanophase Materials: Synthesis-Processes-Applications*, Corfu, Greece, June 1993.
25. C. M. Soukoulis, *21st Midwest Solid State Theory Symposium*, Wayne State University, Detroit, Michigan, USA, October 1993.
26. C. M. Soukoulis, *Advances in Optical Imaging and Photon Migration*, Optical Society of America, Orlando, Florida, USA, March 1994.
27. C. M. Soukoulis, *Waves in Random and Other Complex Media*, Institute for Mathematics and its Applications, Minneapolis, Minnesota, November 1994.
28. C. M. Soukoulis, NATO ASI on *Photonic Band Gap Materials*, Elounda, Crete, Greece, June 1995. (**Director**)
29. C. M. Soukoulis, *Materials Modeling*, Naval Research Laboratory, Washington, D. C., October 1995.
30. C. M. Soukoulis, *15th General Conference of the Condensed Matter Division*, European Physical Society, Baveno-Stressa, Lago Maggiore, Italy, April 1996.
31. C. M. Soukoulis, *Progress in Electromagnetic Research Symposium*, Innsbruck, Austria, July 1996.
32. C. M. Soukoulis, *Fluctuations, Nonlinearity and Disorder*, Heraklion, Crete, Greece, September 1996.
33. C. M. Soukoulis, *Progress in Electromagnetic Research Symposium*, Hong Kong, January 1997.
34. C. M. Soukoulis, NATO ASI on *Diffuse Waves in Complex Media*, Les Houches, France, March 1998.
35. C. M. Soukoulis, TMR Network Meeting on *Phase-Coherent Dynamics of Hybrid Nanostructures*, Ioannina, Greece, May 1998.
36. C. M. Soukoulis, XXII International Workshop on *Condensed Matter Theories*, Vanderbilt University, Nashville, TN, June 1998.
37. C. M. Soukoulis, *Progress in Electromagnetic Research Symposium*, Nantes, France, July 1998.
38. C. M. Soukoulis, *20th International Conference on Statistical Physics*, Paris, France, July 1998.
39. C. M. Soukoulis, *14th General Conference of the Greek Solid State Physics Division*, Ioannina, Greece, September 1998.

40. C. M. Soukoulis, 210th WE-Heraeus Seminar on *Percolation, Interaction and Localization*, Berlin, Germany, October 1998.
41. C. M. Soukoulis, Conference on *Electromagnetic Crystal Structures: Design, Synthesis and Applications, (PECS-I)*, Laguna Beach, CA, January 1999.
42. C. M. Soukoulis, International Conference on *Mechanical and Electromagnetic Waves in Structured Media*, University of Sydney, Sydney, Australia, January 1999.
43. C. M. Soukoulis, Cost268 Meeting on *Wavelength Scale Photonic Components for Telecommunications*, Kista-Stockholm, Sweden, March 1999.
44. C. M. Soukoulis, *Hellenic Condensed Matter Society Meeting*, Athens, Greece, May 1999.
45. C. M. Soukoulis, 4th International Topical Conference on *Optical Probes of Conjugated Polymers and Photonic Crystals*, Salt Lake City, Utah, February 2000.
46. C. M. Soukoulis, International Workshop on *Photonic and Electromagnetic Crystal Structures, (PECS-II)*, Sendai, Japan, March 2000.
47. C. M. Soukoulis, Tsukuba Mini-Workshop on *Photonic Crystals*, Tsukuba, Japan, March 2000.
48. X. Jiang and C. M. Soukoulis, *March Meeting of the American Physical Society*, Minneapolis, Minnesota, March 2000.
49. C. M. Soukoulis, *Wave Propagation and Electronic Structure in Disordered Systems*, a 60th Birthday Symposium in Honor of E. N. Economou, Heraklion, Crete, Greece, June 2000.
50. C. M. Soukoulis, NATO ASI on *Photonic Crystals and Light Localization*, Limin Hersonissou, Crete, Greece, June 2000. (**Director**)
51. C. M. Soukoulis, *Wave Propagation in Diffusive and Nonlinear Media*, Cargese, Corsica, France, September 2000.
52. C. M. Soukoulis, 16th General Conference of the Greek Solid State Physics Division, Nafplion, Greece, September 2000.
53. C. M. Soukoulis, *Fall Meeting of the Materials Research Society*, Boston, Massachusetts, November 2000.
54. C. M. Soukoulis, Workshop on *Photonic and Electromagnetic Crystal Structures, (PECS-III)*, St. Andrews, Scotland, June 2001.
55. C. M. Soukoulis, Trends in Nanotechnology (TNT 2001), Segovia, Spain, September 2001.
56. C. M. Soukoulis, *First Hellenic-Turkish International Conference Physics Conference*, Bodrum, Turkey and Kos, Greece, September 2001.
57. C. M. Soukoulis, *Photonic Nanostructures, Advancing Materials to Control Light*, San Diego, CA, October 2001.
58. C. M. Soukoulis, 2001 Annual Meeting of Optical Society Meeting/ILS-XVVI, Long Beach, CA, October, 2001.
59. C. M. Soukoulis, 7th International Symposium on Advanced Physical Fields, *Fabrication and Characterization of Nanostructured Materials*, Tsukuba, Japan, November 2001.

60. C. M. Soukoulis, *Inauguration Meeting of the DFG - Center for Functional Nanostructures*, Karlsruhe, Germany, December 2001.
61. C. M. Soukoulis, *March Meeting of the American Physical Society*, Indianapolis, Indiana, March 2002.
62. C. M. Soukoulis, *NATO ASI on Wave Scattering in Complex Media: From Theory to Applications*, Cargese, Corsica, France, June 2002.
63. C. M. Soukoulis, *3rd WE-Heraeus Summer School on Photonic Crystals: Optical Materials for the 21st Century*, Lutherstadt Wittenberg, Germany, July 2002.
64. C. M. Soukoulis, *Photonic Crystals Down Under*, The Australian National University, Canberra, Australia, August 2002.
65. C. M. Soukoulis, *283rd WE-Heraeus Seminar on Localization, Quantum Coherence and Interactions*, on the occasion of the 60th birthday of Bernhard Kramer, Hamburg, Germany, September 2002.
66. C. M. Soukoulis, *International Workshop on Photonic and Electromagnetic Crystal Structures, (PECS-IV)*, Los Angeles, CA, USA, October 2002.
67. C. M. Soukoulis, *International Workshop on the Optical Waveguide Theory and Numerical Modeling (OWTNM)*, Prague, Czech Republic, April 4-5, 2003.
68. C. M. Soukoulis, *Spring Meeting of the Materials Research Society*, San Francisco, California, April 2003.
69. C. M. Soukoulis, *Workshop on Quantum Chaos and Localization Phenomena*, Warsaw, Poland, May 24-25, 2003.
70. C. M. Soukoulis, *International Workshop on Optical Properties of Complex Materials over Different Length Scales*, San Sebastian, Spain, July 7-11, 2003.
71. C. M. Soukoulis, *European Research Conference on Surface Plasmon Photonics*, Granada, Spain, 20 - 25 September 2003.
72. C. M. Soukoulis, *Progress in Electromagnetic Research Symposium*, Honolulu, Hawaii, October 2003.
73. C. M. Soukoulis, *International Workshop on Photonic and Electromagnetic Crystal Structures, (PECS-V)*, Kyoto, Japan, March 2004.
74. C. M. Soukoulis, *March Meeting of the American Physical Society*, Montreal, Canada, March 2004.
75. C. M. Soukoulis, *13th European Heterostructure Technology Workshop*, Crete, Greece, October 2004.
76. C. M. Soukoulis, *Latsis Symposium on Negative refraction: revisiting electromagnetics from microwaves to photonics*, Lausanne, Switzerland, February 2005.
77. C. M. Soukoulis, *March Meeting of the German Physical Society*, Berlin, Germany, March 2005.
78. C. M. Soukoulis, *International Workshop on Photonic and Electromagnetic Crystal Structures, (PECS-VI)*, Aghia Pelagia, Heraklion, Crete, Greece, June 2005 (**Director**).
79. C. M. Soukoulis, *14th International Workshop on Optical Waveguide Theory and Numerical Modeling*, Sydney, Australia, July 2005.

80. C. M. Soukoulis, Workshop on *Metamaterials for Microwave and Optical Technologies*, San Sebastian, Spain, July, 2005.
81. C. M. Soukoulis, *Distributed European Doctoral School on Metamaterials*, San Sebastian, Spain, July, 2005.
82. C. M. Soukoulis, International School of Quantum Electronics: *Photonic Metamaterials: From Micro to Nano Scale*, Erice, Italy, August 2005.
83. C. M. Soukoulis, *Progress in Electromagnetic Research Symposium*, Hangzhou, China, August 2005.
84. C. M. Soukoulis, *International Workshop on Meta-materials and Negative Refraction*, Hangzhou, China, August 2005.
85. C. M. Soukoulis, "*SPIE Congress on Optics and Optoelectronics: Metamaterials*," Warsaw, Poland, September, 2005.
86. C. M. Soukoulis, *Workshop on Advances in Nanophotonics*, Heraklion, Crete, Greece, October, 2005.
87. C. M. Soukoulis, *89th Annual Meeting of the Optical Society of America*, Tuscan, Arizona, USA, October, 2005.
88. C. M. Soukoulis, *2006 DARPA Negative Index Materials Meeting*, Coronado, California, USA, January 11-13, 2006.
89. C. M. Soukoulis, *International Workshop on Metamaterials*, Los Alamos National Laboratory, USA, January 19-20, 2006.
90. C. M. Soukoulis, *3rd Annual Meeting of q-Psi Research Center*, Hanyang University, Seoul, Korea, January 23-25, 2006.
91. C. M. Soukoulis, *2006 DOE Solid-State Lighting Workshop*, Orlando, Florida, February 1-3, 2006.
92. C. M. Soukoulis, *Spring Meeting of the Materials Research Society*, San Francisco, California, April 2006.
93. C. M. Soukoulis, *Emerging Metamaterials* (plenary talk on the inauguration of MINATEC, one of the largest Micro & Nanotechnology centers in Europe), Grenoble, France, May 2006.
94. C. M. Soukoulis, *OSA Meeting on Photonic Metamaterials: From Random to Periodic*, Bahamas, June 5-8, 2006.
95. C. M. Soukoulis, *Workshop on Physics of Photonic Crystals and Metamaterials*, Brussels, Belgium, June 2006.
96. C. M. Soukoulis, *PHOREMOST Florence Workshop*, Montegufoni (Florence), Italy, June 2006.
97. C. M. Soukoulis, *5th CUDOS Workshop*, Hervey Bay, Australia, August 2006.
98. C. M. Soukoulis, *Summer School of Metamaterials*, Bad Honnef, Germany, September 2006.
99. C. M. Soukoulis, *XXII Greek Solid State and Materials Science Conference*, Patras, Greece, September 2006.
100. C. M. Soukoulis, *Workshop on Photons and Photonics: From Basic Physics to System Concepts*, Brussels, Belgium, December 2006.

101. C. M. Soukoulis, *1st European Topical Meeting on Nanophotonics and Metamaterials*, Seefeld, Tirol, Austria, January 2007.
102. C. M. Soukoulis, *Nanophotonics Accessibility and Applicability*, National Research Council of the National Academies, Washington, DC, USA, January 2007.
103. C. M. Soukoulis, International Workshop on *Photonic and Electromagnetic Crystal Structures*, (PECS-VII), Monterey, California, USA, April 2007 (**Director**).
104. C. M. Soukoulis, *The European Conference on Lasers and Electro-Optics and the International Quantum Electronics Conference (CLEO/Europe-IQEC)*, Munich, Germany, June 2007 (Plenary Talk).
105. C. M. Soukoulis, International School and Conference on *Optics and Optical Materials*, Belgrade, Serbia, September 3-7, 2007.
106. C. M. Soukoulis, Phoremest Nanophotonics Workshop on *Advances in Nanophotonics*, Istanbul, Turkey, September 13-15, 2007.
107. C. M. Soukoulis, XIV International Summer School "N. Cabrera" on *Frontiers in Science and Technology: Nanophotonics and Optics*, Milaflores de la Sierra, Madrid, Spain, Sept. 17-21, 2007.
108. C. M. Soukoulis, Seventh Annual Meeting of the Fitzpatrick Institute of Photonics on *Photonics in the Translational Era: Science and Technology for a Purpose*, Duke University, Durham, NC, USA, October 11-12, 2007.
109. C. M. Soukoulis, First International Congress on *Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2007)*, Rome, Italy, October 22-26, 2007.
110. C. M. Soukoulis, 12th Greek Physical Society Meeting, Kavala, Greece, March 20-23, 2008.
111. C. M. Soukoulis, *Norwegian Electro-Optics Meeting*, Coastal Steamer M/S Midnatsol from Tromso to Trondheim, Norway, March 26-29, 2008.
112. C. M. Soukoulis, NATO Technical Workshop on "*Photonic Metamaterials for Defense and Security Applications*," Strasbourg, France, April 10-11, 2008.
113. C. M. Soukoulis, *Women in Photonics School on Photonics Metamaterials*, Paris, France, April 13-18, 2008.
114. C. M. Soukoulis, *NATO Advanced Research Workshop: Metamaterials for Secure Information and Communication Technologies*, Marrakesh, Morocco, May 7-10, 2008.
115. C. M. Soukoulis, *Karlsruhe School of Optics & Photonics (KSOP), Summer School 2008*, Bad Herrenalb, Germany, August 20-21, 2008.
116. C. M. Soukoulis, *CFN Summer School 2008 on Nano-Photonics*, Bad Herrenalb, Germany, August 22-25, 2008.
117. C. M. Soukoulis, "*XXIV Panhellenic Conference on Solid State Physics & Materials Science*," Fodele, Crete, Greece, September 21-24, 2008. (**Chair, of the organizing committee**).
118. C. M. Soukoulis, *2008 International Workshop on Metamaterials*, Nanjing, China, November 9-12, 2008.
119. C. M. Soukoulis, *International Workshop on Meta-materials and Plasmonics*, Fudan University, Shanghai, China, November 13-15, 2008.

120. C. M. Soukoulis, *1st International Workshop on Theoretical and Computational Nano-Photonics*, Bad Honnef, Germany, December 3-5, 2008.
121. C. M. Soukoulis, *2st European Topical Meeting on Nanophotonics and Metamaterials*, Seefeld, Tirol, Austria, January 2009.
122. C.M. Soukoulis, *International Workshop on Photonic and Electromagnetic Crystal Structures, (PECS-VIII)*, Sydney, Australia, April 3-7, 2009.
123. C. M. Soukoulis, *International Conference on Electromagnetic Metamaterials III: Towards Real World Applications*, Los Alamos, New Mexico, May 18-19, 2009.
124. C. M. Soukoulis, *International Conference on Electrical, Transport and Optical Properties of Inhomogeneous Media (ETOPIM 8)*, Rethymon, Crete, Greece, June 7-12, 2009. (**Director**)
125. C.M. Soukoulis, *SPIE Optics and Photonics*, San Diego, Ca, USA, August 2-6, 2009.
126. C. M. Soukoulis, *Third International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2009)*, London, UK, August 30-Sept 4, 2009.
127. C. M. Soukoulis, *International Commission for Optics Topical Meeting on "Emerging Trends and Novel Materials in Photonics,"* Delphi, Greece, October 7-9, 2009.
128. C.M. Soukoulis, *2nd Mediterranean Conference on Nano-Photonics (MEDINANO-2)*, Athens, Greece, October 27-29, 2009.
129. C. M. Soukoulis, *Fall Meeting of the Materials Research Society*, Boston, Massachusetts, November 2009.
130. C. M. Soukoulis, *Meta'10 2nd International Conference on Metamaterials, Photonic Crystals and Plasmonics*, Cairo Egypt, February 22-25, 2010.
131. C. M. Soukoulis, *International Workshop on Photonic Nanomaterials – PhoNa 2010*, Jena, Germany, March 24-26, 2010.
132. C.M. Soukoulis, *SPIE Optics and Photonics*, San Diego, Ca, USA, August 1-6, 2010 (Plenary Talk).
133. C. M. Soukoulis, *International Conference on Electromagnetic Metamaterials IV: New Directions in Active and Passive Metamaterials*, Santa Ana Pueblo, New Mexico, August 11-12, 2010.
134. C. M. Soukoulis, *Fourth International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2010)*, Karlsruhe, Germany, September 12-16, 2010.
135. C. M. Soukoulis, *Metamaterials Doctoral School, Bringing Gain to Metamaterials*, Karlsruhe, Germany, September 17-18, 2010 (Tutorial).
136. C. M. Soukoulis, *International Workshop on Photonic and Electromagnetic Crystal Structures, (PECS-IX)*, Granada, Spain, September 26-30, 2010.
137. C. M. Soukoulis, *International Symposium on Wave Propagation: From Electrons to Photonic Crystals and Metamaterials*, Crete, Greece, June 8-11, 2011.
138. C. M. Soukoulis, *International Conference on Materials for Advanced Technologies (ICMAT 2011)*, Singapore, June 26 – July 1, 2011.
139. C.M. Soukoulis, *SPIE Optics and Photonics*, San Diego, Ca, USA, August 21-25, 2011.

140. C. M. Soukoulis, Fifth International Congress on *Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2011)*, Barcelona, Spain, October 10-14, 2011 (Plenary Talk).
141. C. M. Soukoulis, International Conference on *American Institute of Chemical Engineers*, Minneapolis, Minnesota, USA, October 17-19, 2011.
142. C. M. Soukoulis, International Conference on *Electromagnetic Metamaterials V*, Albuquerque, New Mexico, March 25-27, 2012.
143. C. M. Soukoulis, International Workshop on *Electronic Correlations and Disorder in Quantum Matter*, Karlsruhe, Germany, March 31- April 3, 2012.
144. C. M. Soukoulis, *Meta'10 3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics*, Paris, France, April 18-22, 2012.
145. C.M. Soukoulis, International Workshop on *Novel Ideas in Optics: From Advanced Materials to Revolutionary Applications*, Purdue University, West Lafayette, Indiana, USA, May 31-June 2, 2012.
146. C.M. Soukoulis, International Workshop on *Photonic and Electromagnetic Crystal Structures, (PECS-X)*, Santa Fe, New Mexico, USA, June 3-8, 2012 (Co-Director).
147. C.M. Soukoulis, International Conference on *Metamaterials and Dissemination Workshop*, Jena University, Jena, Germany, July 2 - 4, 2012.
148. C.M. Soukoulis, *SPIE Optics and Photonics*, San Diego, CA, USA, August 12-16, 2012.
149. C. M. Soukoulis, International Conference on *Electrical, Transport and Optical Properties of Inhomogeneous Media (ETOPIM 9)*, Marseille, France, September 2-7, 2012 (Plenary Talk).
150. C. M. Soukoulis, The 6th International Congress on *Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2012)*, St. Petersburg, Russia, September 17-22, 2012.
151. C. M. Soukoulis, Groucher Advanced Study Institute on *New Materials and New Concepts for Controlling Light and Waves*, Hong Kong University of Science and Technology, Hong Kong, October 3-7, 2012 (Tutorial Talk).
152. C. M. Soukoulis, Dutch Physical Society (Physics@FOM Veldhoven) on the special focus session on *Photonic Matter*, Veldhoven, Netherlands, January 21-23, 2013 (Invited talk and Masterclass).
153. C. M. Soukoulis, *March Meeting of the American Physical Society*, Baltimore, Maryland, March 18-22, 2013.
154. C. M. Soukoulis, *Spring Meeting of the 2013 Materials Research Society*, San Francisco, California, April 1-5, 2013.
155. C. M. Soukoulis, The 6th International Conference on *Surface Plasmon Photonics*, Ottawa, Canada, May 26-31, 2013.
156. C. M. Soukoulis, NATO Advanced Study Institute (ASI) Summer School on *Nano-Structures for Optics and Photonics*, Erice, Italy, July 7-19, 2013.
157. C. M. Soukoulis, *Progress in Electromagnetic Research Symposium (PIERS 2013)*, Stockholm, Sweden, August 12-16, 2013.
158. C. M. Soukoulis, The 7th International Congress on *Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2013)*, Bordeaux, France, September 16-20, 2013.

159. C. M. Soukoulis, *Fall Meeting of the Materials Research Society*, Boston, Massachusetts, December 1-6, 2013.
160. C. M. Soukoulis, *International Workshop on Active Nanoplasmonics and Metamaterials Dynamics*, Bad Honnef, Germany, January 19-22, 2014.
161. C. M. Soukoulis, *13th Annual CUDOS International Workshop*, San Remo (Phillip Island), Victoria, Australia, February 10-13, 2014.
162. C. M. Soukoulis, *Optical Society of Korea Annual Meeting 2014, Distinguished Lectures on Metamaterials*, Daejeon, Korea, February 19-21, 2014, (Tutorial Talk).
163. C.M. Soukoulis, *International Workshop on Photonic and Electromagnetic Crystal Structures, (PECS-XI)*, Shanghai, China, May 11-15, 2014.
164. C. M. Soukoulis, *NanoPlasm 2014: New Frontiers in Plasmonics and Nano-Optics*, Cetraro, Italy, June 16-20, 2014, (Plenary Talk).
165. C. M. Soukoulis, *11th International Conference on Nanosciences & Nanotechnologies*, Thessaloniki, Greece, July 8-11, 2014, (Plenary Talk).
166. C. M. Soukoulis, *The 8th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2014)*, Copenhagen, Denmark, August 25-28, 2014.
167. C. M. Soukoulis, *5th European International Topical Meeting on Nanophotonics and Metamaterials*, Seefeld, Tirol, Austria, January 5-8, 2015.
168. C. M. Soukoulis, *The 7th International Conference on Surface Plasmon Photonics*, Jerusalem, Israel, May 31-June 5, 2015.
169. C. M. Soukoulis, *International Conference on Electrical, Transport and Optical Properties of Inhomogeneous Media (ETOPIM 10)*, Neveh Ilan, Israel, June 21-26, 2015 (Plenary Talk).
170. C.M. Soukoulis, *Metamaterials Science & Technology Workshop: first 15 years of metamaterials*, San Diego, California, USA, July 20-22, 2015.
171. C. M. Soukoulis, *The 9th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2015)*, Oxford, England, September 7-10, 2015.
172. C. M. Soukoulis, *XXXI Panhellenic Conference on Solid State Physics & Materials Science*, Thessaloniki, Greece, September 20-23, 2015.
173. C. M. Soukoulis, *Fall Meeting of the Materials Research Society*, Boston, Massachusetts, November 30 - December 4, 2015.
174. C. M. Soukoulis, *5th International Conference Smart and Multifunctional Materials, Structures and Systems (CIMTEC 2016)*, Perugia, Italy, June 5-9, 2016.
175. C. M. Soukoulis, *Quantum Metamaterials and Quantum Technology*, Spetses, Greece, June 20-24, 2016.
176. C. M. Soukoulis, *International Conference on Materials for Advanced Technologies (IUMRS-ICEM 2016)*, Singapore, July 4 - 8, 2016.
177. C.M. Soukoulis, *International Workshop on Photonic and Electromagnetic Crystal Structures, (PECS-XII)*, York, UK, July 17-21, 2016.

178. C. M. Soukoulis, The 10th International Congress on *Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2016)*, Chania, Greece, September 17-22, 2016. (**Director**).

Publications:

1. C. M. Soukoulis and K. Levin, "Cluster Mean Field Theory of Spin Glasses," *Phys. Rev. Lett.* **39**, 581 (1977).
2. C. M. Soukoulis and K. Levin, "A Cluster Mean Field Model of the Spin Glasses: Static Properties," *Phys. Rev. B* **18**, 1439 (1978).
3. C. M. Soukoulis, G. S. Grest, and K. Levin, "Theory of the Neutron Scattering Cross Section in Spin Glasses," *Phys. Rev. Lett.* **41**, 568 (1978).
4. C. M. Soukoulis, "Thermodynamic Properties of Concentrated Spin Glasses: A Cluster Mean Field Theory," *Phys. Rev. B* **18**, 3757 (1978).
5. K. Levin, C. M. Soukoulis, and G. S. Grest, "A Cluster Model of Spin Glasses: Towards Reconciling Theory and Experiment," (Invited talk Joint MMM/INTERMAG Conference (1978)), *J. Appl. Phys.* **50**, 1695 (1979).
6. J. Ruvalds and C. M. Soukoulis, "Disorder and Superconductivity in A-15 Compounds," *Phys. Rev. Lett.* **43**, 1263 (1979).
7. C. M. Soukoulis and G. S. Grest, "Superconductivity and Magnetic Order in Ferromagnets and Spin Glasses," *Phys. Rev. B* **21**, 5119 (1980).
8. C. M. Soukoulis and J. Ruvalds, "Resistivity and T_C in Disordered Superconductors," *J. Low Temp. Phys.* **40**, 89 (1980).
9. E. N. Economou and C. M. Soukoulis, "Static Conductance and Scaling Theory of Localization in One Dimension," *Phys. Rev. Lett.* **46**, 618 (1981).
10. K. Levin, C. M. Soukoulis, and G. S. Grest, Reply to "Re-Examination of the Small Angle Neutron Scattering Data on Concentrated AuFe Spin Glasses," *Phys. Rev. B* **22**, 3500 (1980).
11. C. M. Soukoulis and E. N. Economou, "Numerical Calculations of the DC Conductance by the Kubo-Greenwood Formula in One-Dimensional Disordered Systems," *Solid State Comm.* **37**, 409 (1981).
12. C. M. Soukoulis and E. N. Economou, "Localization in Disordered Two-Dimensional Systems," *Phys. Rev. Lett.* **45**, 1590 (1980).
13. C. M. Soukoulis and E. N. Economou, "Localization in Disordered Three-Dimensional Systems," *J. Phys. C* **14**, L221 (1981).
14. C. M. Soukoulis and E. N. Economou, "Off-Diagonal Disorder in One-Dimensional Systems," *Phys. Rev. B* **24**, 5698 (1981).
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449.

Seminars at Institutions:

“Cluster Mean Field Theory of Spin Glasses: Static and Dynamic Properties”

Northwestern University, March 1978
Brookhaven National Laboratory, April 1978
University of Virginia, April 1978
Les Houches Summer School, July 1978
Naval Research Laboratory, September 1978
Purdue University, June 1979

“Disorder and Superconductivity”

University of Virginia, May 1979

“Superconductivity and Magnetic Order in Ferromagnets and Spin Glasses”

University of Virginia, November 1979

“Localization in Low Dimensions”

University of Virginia, May 1980, September 1980
Michigan State University, May 1980
University of Chicago, May 1980
Northeastern University, June 1980
Exxon Research Laboratories, September 1980

“Computer Simulations of Atomic Distributions in Zeolite Crystals”

Exxon Research Laboratories, September 1982

“Reversible and Irreversible Behavior of Spin Glasses”

Northeastern University, November 1982
Naval Research Laboratory, December 1982
Case Western Reserve University, January 1983
University of Michigan, January 1983
Purdue University, February 1983
Washington University, St. Louis, Missouri, February 1983
Iowa State University, February 1983
Princeton University, May 1983
University of Crete, June 1983
Kansas State University, April 1984

“Characterization of Wave Functions in Disordered Systems”

Iowa State University, January 1984
Kansas State University, April 1984
State University of New York at Binghamton, April 1984

“Transport Properties of Amorphous Semiconductors”

Amoco Research Center, Naperville, Illinois, May 1984
University of Crete, January 1985

“Order and Disorder in Random Spin Systems”

University of Crete, March 1985, March 1987
Iowa State University, March 1986
Nuclear Research Center, Democritos, Athens, Greece, April 1987
University of Ioannina, Greece, May 1987
Catholic University of Leuven, Belgium, December 1989

“Exponential Band Tails in Disordered Systems”

Exxon Research Laboratories, September 1987
Iowa State University, October 1987

“A Theoretical Investigation on Structural, Vibrational, and Electronic Properties of Amorphous Silicon”
University of Crete, Greece, November 1988

“The Physics of Disordered Systems: Are They Fractals?”

Iowa State University, October 1989
Universite de Montreal, Canada, April 1990
Nuclear Research Center, Democritos, Athens, Greece, January 1991
University of Athens, Greece, March 1991
University of Mainz, Germany, June 1991
Ecole Polytechnique Federale de Lausanne, Switzerland, June 1991

“Localization of Classical Waves and Photonic Band Gaps”

University of Amsterdam, Netherlands, December 1989
Ecole Polytechnique, Montreal, Canada, April 1990
University of Karlsruhe, Germany, June 1991
Université de Fribourg, Switzerland, June 1991
Niigata University, Japan, July 1991
Kansas State University, October 1991
University of Delaware, November 1991
Nuclear Research Center, Democritos, Athens, Greece, January 1992
University of North Texas, March 1992
Ecole Polytechnique Federale de Lausanne, Switzerland, June 1992
University of Pavia, Italy, July 1992
Iowa State University, October 1992
University of Crete, Greece, February 1993
Stanford University, March 1995
University of Illinois at Urbana, April 1995
University of Amsterdam, Netherlands, March 1999

“Electron-Phonon Interaction, Localization and Polaron Formation in 1-D Systems”

University of North Texas, March 1992
University of Karlsruhe, Germany, June 1992

“Localization Studies in Highly Anisotropic Systems”

University of Minnesota, November 1994
Iowa State University, September 1995
Nuclear Research Center, Democritos, Athens, Greece, January 1996
Technical University of Denmark, Lyngby, May 1996
University of Karlsruhe, Germany, July 1996
Iowa State University, September 1996
Iowa State University (Chemistry), September 1997
Nuclear Research Center, Democritos (Chemistry), Athens, GR, January 1998
University of Crete, Greece, December 1998
University of Amsterdam, Netherlands, April 1999
University of Karlsruhe, Germany, July 1999

“Photonic Band Gaps Materials: The Semiconductors of the Future?”

University of Toledo, April 1993
University of Minnesota, May 1993
University of Chicago, May 1993
NEC Research Institute, Princeton, NJ, January 1994
Nuclear Research Center, Democritos, Athens, Greece, January 1994
University of Crete, Greece, February 1994
University of Delaware, April 1994
Naval Research Laboratory, May 1994
University of Illinois at Urbana, April 1995
Vanderbilt University, April 1996
Technical University of Denmark, Lyngby, May 1996
Ecole Polytechnique Federale de Lausanne, Switzerland, July 1996
National Technical University of Athens, Greece, January 1997
University of Crete, Greece, October 1998
Australian National University, Canberra, Australia, January 1999
Nuclear Research Center, Democritos, Athens, Greece, February 1999
University of Amsterdam, Netherlands, March 1999
Laboratory Leon Brillouin, CEA Saclay, France, May 2000
Institute di Spettroscopia Molecolare, Bologna, Italy, September 2000
Department of Physics, University of Crete, Greece, September 2001
Department of Physics, California State University at Northridge, October 2001
Department of Materials Science & Engineering, Cornell Univ., Ithaca, NY October 2001
Department of Physics, University of Dusseldorf, Germany, May 2003

“Random Lasers”

University of Amsterdam, Netherlands, April 1999
Northwestern University, May 2000
Nuclear Research Center, Democritos, Athens, Greece, January 2001

“Left-handed Materials”

University of Crete, Greece, Heraklion, Crete, January 2002
University of Pavia, Pavia, Italy, January 2003
Boeing Research, Seattle, Washington, January 2003
University of Karlsruhe, Physics Department, Germany, May 2003
University of Bonn, Physics Department, Germany, June 2003
ETH Zurich, Physical Chemistry Department, Switzerland, June 2003
Ecole Polytechnique Federale de Lausanne, Physics Dept., Switzerland, June 2003
University of Karlsruhe, EE Department, Germany, July 2003
Iowa State University, Physics Department, September 2003
Michigan State University, Physics Department, December 2003
Nuclear Research Center, Democritos, Athens, Greece, December 2003
Boston College, Physics Department, April 2004
University of Karlsruhe, Physics Department, Germany, July 2004
University of Crete, Heraklion, Crete, Greece, October 2004
ETH Zurich, Physical Chemistry Department, Switzerland, March 2005
Nonlinear Physics Center, The Australian National University, Canberra, Australia, July 2005
Shanghai Institute of Microfabrication and Information Technology, Shanghai, China, August 2005
Institute of Physics (Optical Lab.), Chinese Academy of Sciences, Beijing, China, September 2005
University of Karlsruhe, Physics Department, Germany, July 2006
University of Adelaide, Physics Department, Adelaide, Australia, August 2006
Nonlinear Physics Center, The Australian National University, Canberra, Australia, August 2006
University of Technology, Sydney, Dept. of Mathematical Sciences, Sydney, Australia, August 2006
Duke University, Fitzpatrick Institute for Photonics, Durham, North Carolina, November 2006

“Bending Back Light: The Science of Negative Index Materials”

Duke University, Mechanical Engineering & Materials Science, Durham, NC, February 2007
University of Ioannina, Physics Department, Ioannina, Greece, May 2007
University of Thessaloniki, Physics Department, Thessaloniki, Greece, May 2007
SINTEF Laboratory, Microsystems and Nanotechnology, Oslo, Norway, March 2008
Nuclear Research Center, Democritos, Athens, Greece, April 2008
Sandia National Laboratory, Albuquerque, New Mexico, August 2008
University of Virginia, Charlottesville, Virginia, October 2008.
Wright Patterson AFB, Electro-Optics Components Branch, Dayton, Ohio, March 2009.
Pacific Northwest National Laboratory, Richland, WA, April 2009.
Institute of Atomic and Molecular Physics (AMOLF), FOM, Amsterdam, Netherlands, June 2009
Condensed Matter Group, University of Minnesota, Minneapolis, USA, October 2009

“Photonic Metamaterials: Challenges and Opportunities”

Department of Physics, University of Minnesota, Minneapolis, USA, September 2009
Department of Physics, Drake University, Des Moines, Iowa, USA, October 2010
Solvay Colloquium, Brussels, Belgium, May 2011
LabEx AMADEus Research Center, University of Bordeaux, Bordeaux, France, January 2012
Department of Physics, Koc University, Istanbul, Turkey, March 2012
Institute of Physics, Humboldt University, Berlin, Germany, July 2012
Physical Institute, University of Stuttgart, Stuttgart, Germany, July 2012
Osborn Research Club, Public Lecture, Iowa State University, October 2013
Winegarg Visiting Public Lectureship, University of Guelph, Canada, March 11, 2014
Department of Physics, University of Guelph, Guelph, Canada, March 12, 2014
Institute of Atomic and Molecular Physics (AMOLF), FOM, Amsterdam, Netherlands, April 7, 2014
Center for Integrated Nanotechnologies, LANL, Los Alamos, NM, January 6, 2016