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Education:

- 1985 California Institute of Technology, Pasadena, CA. Ph.D. in inorganic chemistry. Thesis research with Prof. John E. Bercaw, involving organoscandium chemistry.
- 1980 University of California at Berkeley. B.S. with honors in chemistry.

Professional Experience:

- 2005-2008 University of Southern California, Chemistry Department Chairman
- 1999-present University of Southern California, Department of Chemistry, Professor
- 1995-1999 University of Southern California, Department of Chemistry, Associate Professor
- 1987-95 Princeton University, Princeton, NJ. Assistant Professor
- 1985-87 Inorganic Chemistry Laboratory, Oxford University, Oxford, England. S.E.R.C. Research Fellow. Worked with Prof. Malcolm L.H. Green, studying electronic and nonlinear-optical properties of organometallic materials
- 1983 E.I. duPont deNemours & Co., C. R. and D., Wilmington, DE. Visiting Scientist

Awards and Honors

- 5/17 IEEE Nishizawa Medal
- 6/16 IEEE Photonics Award
- 6/15 Named Ray R. Irani Chair of Chemistry, University of Southern California
- 5/15 Xing Da Lecturer, Peking University
- 4/15 USC Mellon Mentoring Award
- 3/15 American Chemical Society Award in Chemistry of Materials
- 12/14 Elected to the National Academy of Inventors
- 3/14 Earnest Swift Lecturer, California Institute of Technology
- 5/14 Richard C. Tolman Award, Southern California Section, American Chemical Society
- 4/13 Named a Fellow of the American Association for the Advancement of Science
- 5/12 Alexander von Humboldt Research Award
- 10/11 COPE Distinguished Lecturer, Georgia Institute of Technology

- 2/11 Ranked 12th of the top 100 chemists worldwide for their citation impact scores for chemistry papers published since January 2000, by Thomson Reuters Web of Science (<http://sciencewatch.com/dr/sci/misc/Top100Chemists2000-10/>)
- 3/07 USC Associates Award for Excellence in Research (given to a one faculty member per year)
- 11/06 MRS Medal, given by the Materials Research Society
- 5/06 Jan Rajchman Prize for Outstanding Research in Flat Panel Displays, given by the Society for Information Display
- 12/04 Raubenheimer Outstanding Faculty Award, College of Letters, Arts and Science, University of Southern California
- 11/98 Thomas Alva Edison Patent Award, presented by the Research and Development Council of New Jersey
- 3/98 Distinguished Inventor of the Year, awarded by The Intellectual Property Owners Association

Publications (only refereed papers are listed):

1. Some Aspects of the Chemistry of Alkyl and Hydride Derivatives of Permethylscandocene. Mark E. Thompson and John E. Bercaw, *Pure Appl. Chem.*, **1984**, 56(1), 1-11.
2. “ σ Bond Metathesis” for C-H Bonds of Hydrocarbons and Sc-R (R = H, alkyl, aryl) Bonds of Permethylscandocene Derivatives. Evidence for Non-Involvement of the Pi System of Electrophilic Activation of Aromatic and Vinylic C-H Bonds. Mark E. Thompson, Michael Nolan, Steven Baxter, Barbara J. Burger, A. Ray Bulls, Bernard D. Santarsiero, William P. Schaeffer and J. E. Bercaw, *J. Am. Chem. Soc.*, **1987**, 109(1), 203-219.
3. Effects of High Intensity Ultrasound on Inorganic Solids. Kenneth S. Suslick, Kali Chatakondur, Malcolm L.H. Green, Mark E. Thompson, *Ultrasonics*, **1987**, 25, 56-59.
4. Enhancement of Intercalation by Ultrasound. Kenneth S. Suslick, Kali Chatakondur, Malcolm L.H. Green, Mark E. Thompson, *J.C.S. Chem. Comm.*, **1987**, 12, 900-901.
5. The Synthesis and Structure of (Z)-[1-ferrocenyl-2-(4-nitrophenyl)ethylene]: An Organotransition Metal Compound with a large Second Order Optical Nonlinearity. Malcolm L.H. Green, Seth R. Marder, Mark E. Thompson, Judith A. Bandy, David Bloor, *Nature*, **1987**, 330, 360-362.
6. Intercalation of Redox Active Cubane Clusters into Layered Metal Oxides and Related Solids. Kalyan Chatakondur, Malcolm L.H. Green, Jingui Qin, Mark E. Thompson, Phillip Wiseman, *J.C.S. Chem. Comm.*, **1988**, 3, 223-225.
7. Relative Bond Dissociation Energies for Early Transition Metal Alkyl, Alkynyl, Aryl, and Hydride Compounds. Equilibration of Derivatives of Peralkylated Hafnocene and Scandocene with Hydrocarbons and Dihydrogen. A.R. Bulls, J.E. Bercaw, J.M. Manriquez, M.E. Thompson, *Polyhedron*, **1988**, 7(16-17), 1409-1428.
8. The Synthesis of Ferrocenyl Compounds with Second-order Optical Non-linearities. Judith A. Bandy, Heather Bunting, Malcolm L.H. Green, Seth R. Marder, Mark E. Thompson, David Bloor, P.V. Kolinsky, R.J. Jones “Organic Materials for Nonlinear Optics”, R.A. Hann, D. Bloor (Eds.), Royal Chemical Society, London, **1988**, 219-224.

9. The Synthesis of Organometallic Compounds with Second-order Optical Non-linearities. Judith A. Bandy, Heather Bunting, M. Helana Garcia, Malcolm L.H. Green, Seth R. Marder, Mark E. Thompson, David Bloor, P.V. Kolinsky, R.J. Jones "Organic Materials for Nonlinear Optics", R.A. Hann, D. Bloor (Eds.), Royal Chemical Society, London, **1988**, 225-231.
10. New Organometallic Solids. Malcolm L.H. Green, Jingui Qin, Dermot O'Hare, Heather Bunting, Mark E. Thompson, Seth R. Marder, Kalyan Chatakondur, *Pure and Appl. Chem.*, **1989**, 61(5), 817-822.
11. A New Class of Room Temperature Luminescent Organometallic Complexes: Luminescence and Photophysical Properties of Permethylscandocenechloride in Solution. Brian W. Pfenig, Mark E. Thompson, Andrew B. Bocarsly. *J. Am. Chem. Soc.*, **1989**, 111(24), 8947-8948.
12. Ethylene Insertion and B-Hydrogen Elimination for Permethylscandocene Alkyl Complexes: A Study of the Chain Propagation Termination Steps in Ziegler-Natta Polymerization of Ethylene. Barbara J. Burger, Mark E. Thompson, W. Donald Cotter, John E. Bercaw *J. Am. Chem. Soc.*, **1990**, 112(4), 1566-1577.
13. Synthesis and Nonlinear Optical Properties of Inorganic Coordination Polymers. William Chiang, Mark E. Thompson, Donna Van Engen, "Organic Materials for Nonlinear Optics", R.A. Hann, D. Bloor (Eds.), *Royal Chemical Society*, London, **1990**, 91(2), 210-217.
14. Synthesis and Photochemical Reactions of a Layered Manganese carbonyl-Zirconium-hydrogenphosphate Compound. Charlotte F. Lee and Mark E. Thompson, *Inorg. Chem.*, **1991**, 30, 4-5.
15. The Synthesis of Layered $Zr(O_3PCH_2CH_2COCl)_2$ from $Zr(O_3PCH_2CH_2COOH)_2$. David A. Burwell and Mark E. Thompson. *Chemistry of Materials*, **1991**, 3, 14-17.
16. The Synthesis of Amide and Ester Intercalation Compounds from $Zr(O_3PCH_2CH_2COCl)_2$. David A. Burwell and Mark E. Thompson, *Chemistry of Materials*, **1991**, 3, 730-737.
17. Nonlinear Optical Properties of Inorganic Coordination Polymers and Organometallic Complexes. Mark E. Thompson, William Chiang, Lori K. Myers, Charles Langhoff. *Proc. SPIE*, **1991**, 1497, 423-429.
18. Synthesis and Polymerization of Propargylamine and Aminoacetonitrile Intercalation Compounds. John E. Pillion and Mark E. Thompson. *Chemistry of Materials*, **1991**, 3(5), 777-779.
19. Synthesis and Study of Asymmetrically-Layered Zirconium Phosphonates. David A. Burwell and Mark E. Thompson, *ACS Symp. Ser.*, **1992**, No. 499, Chapter 13.
20. ^{31}P and ^{13}C Chemical Shift Tensors in Zirconium Phosphonates. David A. Burwell, Kathy G. Valentine and Mark E. Thompson, *J. Mag. Res.*, **1992**, 97(3), 498-510.
21. Structural Studies of Oriented Zirconium Bis(phosphonoacetic acid) Using Solid-State ^{31}P and ^{13}C NMR. David A. Burwell, Kathy G. Valentine and Mark E. Thompson, *Journal of the American Chemical Society*, **1992**, 114(11), 4144-4150.

22. A Solid State Deuterium NMR Investigation of the Structure of the Ferrocenylethylamine•-Zirconium Hydrogen Phosphate Intercalation Compound. Charlotte F. Lee, Lori K. Myers, Kathleen G. Valentine and Mark E. Thompson, *J. Chem. Soc., Chem. Comm.*, **1992**, 2, 201-203.
23. Second-Order Non-Linear Properties of Diironalkenylidyne Complexes; Crystal Structure of $\{(\eta\text{-C}_5\text{H}_5)_2\text{Fe}_2(\text{CO})_2(\mu\text{-CO})(\mu\text{-E})\text{-CCH=CHC}_6\text{H}_4\text{NMe}_2\}^+\text{BF}_4^-$. J.A. Bandy, H.E. Bunting, M.H. Garcia, M.L.H. Green, S.R. Marder, M.E. Thompson, D. Bloor, P.V. Kolinsky, R.J. Jones, *Polyhedron*, **1992**, 11(12), 1429-1435.
24. The Synthesis of Ferrocenyl Compounds with Second-Order Optical Nonlinearities. H.E. Bunting, M.L.H. Green, S.R. Marder, M.E. Thompson, D. Bloor, P.V. Kolinsky, R.J. Jones, J.W. Perry, *Polyhedron*, **1992**, 11(12), 1489-1499.
25. Cubic Nonlinear Optical Properties of Group 4 Metallocene Halide and Acetylide Complexes. Lori K. Myers, Mark E. Thompson and Charles Langhoff, *Journal of the American Chemical Society*, 1992, 114(19), 7560-7561.
26. Stable Photoinduced Charge Separation In Layered Viologen Compounds. Lori Vermeulen and Mark E. Thompson, *Nature*, **1992**, 358(6388), 656-658.
27. Structure and Bonding in Group 4 Metallocene Acetylide and Olefin Complexes. Eugene T. Knight, Lori K. Myers and Mark E. Thompson, *Organometallics*, **1992**, 11(11), 3691-3696.
28. Luminescence and Photophysical Properties of Permethylscandocene Complexes. Brian W. Pfenig, Mark E. Thompson, Andrew B. Bocarsly, *Organometallics*, **1993**, 12(3), 649-655.
29. The Synthesis and Structures of Polar Coordination Polymers; $[(\text{SALEN})\text{MnO}_2\text{CCH}_2\text{D-B}]_n$, D = NH, S; -B: = 4-pyridyl, 4-benzonitrile. William Chiang, Mark E. Thompson, Donna Van Engen and Douglas Ho, *Inorganic Chemistry*, **1993**, 32(13), 2886-2893.
30. Synthesis and Crystal Structure of $\text{Ba}[\text{V}_2(\text{HPO}_4)_4](\text{H}_2\text{O})$. Zhanwen Wang, Robert C. Haushalter, Mark E. Thompson and Jon Zubieta, *Mat. Chem. Phys.*, **1993**, 35(3-4), 205-207.
31. Octahedral-Tetrahedral Framework Solids of the Vanadium Phosphate System. Hydrothermal Syntheses and Crystal Structures of the Vanadium (III) Phosphates $\text{Cs}[\text{V}^{\text{III}}(\text{PO}_4)(\text{HPO}_4)(\text{H}_2\text{O})_2]$ and $\text{K}[(\text{V}^{\text{IV}}\text{O})\text{V}^{\text{III}}(\text{HPO}_4)_3(\text{H}_2\text{O})_2]$. Robert C. Haushalter, Mark E. Thompson, Zhanwen Wang, Jon Zubieta, *Inorganic Chemistry*, **1993**, 32(17), 3700-3705.
32. A Stairstep Layer Structure Encapsulating Interlayer K^+ Cations: Hydrothermal Synthesis and Crystal Structure of a Mixed Valence Vanadium Phosphate $\text{K}_2[(\text{V}^{\text{IV}}\text{O})_2\text{V}^{\text{III}}(\text{PO}_4)_2(\text{HPO}_4)(\text{H}_2\text{O})_2]$. Robert C. Haushalter, Mark E. Thompson, Zhanwen Wang, Jon Zubieta, *Inorganic Chemistry*, **1993**, 32(18), 3966-3969.
33. Orientation Dependent NMR Spectroscopy: A Versatile Tool for Determining Structure in Microcrystalline Layered Solids. David A. Burwell, Charlotte F. Lee, Lori K. Myers, Kathleen G. Valentine and Mark E. Thompson, invited chapter for the ACS Advances in Chemistry Series: "Materials Chemistry: An Emerging Subdiscipline", L. Interrante (Ed.).

34. Intercalation of Aminophenyl and Pyridinium-Substituted Porphyrins into Zirconium Hydrogen Phosphate: Evidence for Substituent-Derived Orientational Selectivity. Ronald M. Kim, John E. Pillion, David A. Burwell, John T. Groves and Mark E. Thompson, *Inorganic Chemistry*, **1993**, 32(21), 4509-4516.
35. Efficient Photoinduced Charge Separation in Layered Zirconium Viologen-Phosphonate Compounds. Lori A. Vermeulen, Jonathan L. Snover, Linda S. Sapochak and Mark E. Thompson, *Journal of the American Chemical Society*, **1993**, 115(25), 11767-11774.
36. Synthesis and Study of Zirconium Viologen-Phosphonate Thin Films Containing Colloidal Platinum. Jonathan L. Snover and Mark E. Thompson, *J. Am. Chem. Soc.*, **1994**, 116(2), 765-766.
37. Synthesis and Photochemical Properties of Porous Zirconium Viologen-Phosphonate Compounds. Lori A. Vermeulen and Mark E. Thompson, *Chem. Mater.*, **1994**, 6(1), 77-81.
38. Hydrothermal Synthesis and Crystal Structure of Cs[(V₂O₃)(HPO₄)₂(H₂O)], a Mixed Valence Vanadium (IV, V) Hydrogen Phosphate with a One-Dimensional (-V^{IV}-O-V^V-O-) Chain of Corner Sharing VO₆ Octahedra. Robert C. Haushalter, Mark E. Thompson, Zhanwen Wang, Jon Zubieta, *J. Solid State Chem.*, **1994**, 109(2), 259-264.
39. Heterostructure Electroluminescent Diodes Prepared from Poly(p-phenylene vinylene) and Aluminum-tris (8-quinolate). Chung-Chih We, Jonathan Chun, Paul Burrows, Steven Forrest, Richard A. Register, James C. Sturm, and Mark E. Thompson, *Polymer*, **1994**, 35(2), 101-102.
40. Luminescent Properties of Conjugated Poly(p-pyridylvinylene) and Poly (p-pyridiniumvinylene). Jing Tian, Mark E. Thompson, Chung-Chih Wu, James C. Sturm, and Richard A. Register. *Polymer*, **1994**, 35(2), 761-762.
41. Intercalation Induced Reactions of Ironoxychloride. John E. Pillion, Harry D. Gafney, Miriam H. Rafailovich, John Sokolov, D. Sunil, Joseph M. O'Connor and Mark E. Thompson, *Journal of Solid State Chemistry*, **1994**, 113(2), 261-271.
42. Hydrothermal Synthesis and Structural Characterization of the Two New Vanadium Arsenates: H₂NC₄H₈NH₂[(V^{IV}O)₂(HAsO₄)₂(H₂AsO₄)₂] and H₃NCH₂CH₂NH₃[V^{III}(HAsO₄)₂(H₂AsO₄)]•H₂O. Sandeep S. Dhingra, Robert C. Haushalter, Linda A. Meyer, Mark E. Thompson, Zhanwen Wang and Jon Zubieta, *Chemistry of Materials*, **1994**, 6(9), 1463-1464.
43. Metal Ion Dependent Luminescence Effects in Metal Trisquinolate Organic Heterojunction Light Emitting Devices. P.E. Burrows, L.S. Sapochak, D.M. McCarty, S.R. Forrest, M.E. Thompson, *Applied Physics Letters*, **1994**, 64, 2718-2720.
44. The Use of Layered Metal Phosphates and Phosphonates for the Design and Construction of Molecular Materials. Mark E. Thompson, *Chemistry of Materials*, **1994**, 6(8), 1168.
45. Structure of a Novel Layered Zirconium Diphosphonate Compound: Zr₂(O₃PCH₂CH₂-viologen-CH₂CH₂PO₃)F₆•2H₂O. Damodara Poojary, Lori A. Vermeulen, Edward Vicenzi, Abraham Clearfield, Mark Thompson, *Chemistry of Materials*, **1994**, 6(10), 1845-1849.

46. Reliability and Degradation of Organic Light Emitting Devices. Paul E. Burrows, Vladimir Bulovic, Stephen R. Forrest, Linda S. Sapochak, Dennis M. McCarty, Mark E. Thompson, *Applied Physics Letters*, **1994**, 65, 2922-2924.
47. Luminescent Properties of Pentacoordinated Gallium bis(2-methyl-8-hydroxyquinoline) (carboxylate and chloro) compounds for OLED applications. Linda S. Sapochak, Paul E. Burrows, Dennis M. McCarty, Mark E. Thompson and Stephen R. Forrest, *Polymeric Materials Science and Engineering*, **1995**, 72, 331-332.
48. Organic Emitters Promise A New Generation of Displays. Stephen R. Forrest, Paul E. Burrows, and Mark E. Thompson, *Laser Focus World*, **1995**, 31(2), 99, 101-102, 104, 106-107.
49. Third Order Nonlinear Optical Properties of Group 4 Metallocenes. Lori K. Myers, Charles Langhoff, Douglas M. Ho, Mark E. Thompson, *Polyhedron*, 1995, 14(1), 57-67.
50. Poly(p-phenylene vinylene)/Tris(8-hydroxy)Quinoline Aluminum Heterostructure Light Emitting Diodes. Chung-Chih Wu, Jonathan Chun, Paul Burrows, Steven Forrest, Richard A. Register, James C. Sturm and Mark E. Thompson, *Applied Physics Letters*, **1995**, 66, 653-655.
51. Zirconium Viologen Phosphonate Compounds on a Polymer Template with Colloidal Pt Particles. Xiaozhong Tang and Mark E. Thompson. *Polymetric Materials Science and Engineering*, **1995**, 73, 216-217.
52. Electroluminescent Properties of Self-Assembled Polymer Thin Films. Jing Tian, Chung-Chih Wu, Mark E. Thompson, James C. Sturm, Richard A. Register, *Advanced Materials*, 1995, 7(4), 395-398.
53. Mechanistic Studies of Film Growth of Zirconium Bisphosphonate Mono - and Multilayer Thin Films. These Things Grow Darned Flat! Houston Byrd, Jonathan L. Snover, and Mark E. Thompson, *Langmuir*, **1995**, 11(11), 4449-4453.
54. Photophysical Properties, Self-Assembled Thin Films and Light-Emitting Diodes of Poly(p-pyridylvinylene)s and Poly(p-pyridinium vinylene)s. Jing Tian, Chung-Chih Wu, Mark E. Thompson, James C. Sturm, Richard A. Register, *Chemistry of Materials*, **1995**, 7(11), 2190-2198.
55. Second Order Nonlinear Optical Properties of Fe(SALEN) Complexes. William Chiang, Donna VanEngen and Mark E. Thompson, *Polyhedron*, **1996** 15(14), 2369-2376.
56. Temperature Dependence of Current Transport and Electroluminescence in Vacuum Deposited Organic Light Emitting Devices. Zilan Shen, Paul E. Burrows, Vladimir Bulovic, Mark E. Thompson and Stephen R. Forrest, *Japanese Journal of Applied Physics*, **1996**, 35(3B), 401-404.
57. Photocurrent Generation in Metal Bisphosphonate Multilayer Thin Films. Houston Byrd, Elena P. Suponeva, Andrew B. Bocarsly and Mark E. Thompson, *Nature*, **1996**, 380(6575), 610-612.
58. Growth and Characterization of Photoactive and Electroactive Zirconium Bisphosphonate Multilayer Films. Jonathan L. Snover, Houston Byrd, Elena P. Suponeva, Edward Vicenzi, and Mark E. Thompson, *Chemistry of Materials*, **1996**, 8(7), 1490-1499.

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60. The Relationship Between Electroluminescence and Current Transport in Organic Heterojunction Light Emitting Devices. Paul E. Burrows, Zilan Shen, Vladimir Bulovic, Dennis M. McCarty, Stephen R. Forrest, Jon Cronin and Mark E. Thompson, *Journal of Applied Physics*, **1996**, *79*, 7991-8006.
61. Novel Transparent Organic Light Emitting Device. Gongu Gu, Vladimir Bulovic, Paul E. Burrows, Mark E. Thompson, Stephen R. Forrest, *Nature*, **1996**, *380*, 29.
62. Study of Localized and Extended Excitons in 3,4,9,10 - Perylenetetracarboxylic Dianhydride (PTCDA) I. Spectroscopic Properties of Thin Films and Solutions. Vladimir Bulovic, Stephen R. Forrest, Jon A. Cronin, Mark E. Thompson, *Chemical Physics*, **1996**, *210*, 1-12.
63. Transparent Organic Light Emitting Devices. Gong Gu, Vladimir Bulovic, Paul E. Burrows, Stephen R. Forrest, Mark E. Thompson, *Applied Physics Letters*, **1996**, *68*, 2606-2608.
64. Crystal Structure of a Porous Zirconium Phosphate/Phosphonate Compound and Photocatalytic Hydrogen Production from Related Materials. Houston Byrd, Kenneth P. Reis, Mark E. Thompson, Damodara Poojary and Abraham Clearfield, *Chemistry of Materials*, **1996**, *8(9)*, 2239-2246.
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66. Color-Tunable Organic Light Emitting Devices. Paul E. Burrows, Stephen R. Forrest, Scott S. Sibley, Mark E. Thompson, *Applied Physics Letters*, **1996**, *69*, 2959-2961.
67. A Systematic Study of the Photoluminescent and Electroluminescent Properties of Pentacoordinate Carboxylate and Chloro Bis-(8-Hydroxyquinoline) Complexes of Gallium (III). Linda S. Sapochak, Paul E. Burrows, Mark E. Thompson and Stephen R. Forrest, *J. of Physical Chemistry*, **1996**, *100(45)*, 17766-17771.
68. Integrated Three-Color Organic Light Emitting Devices. Chung-Chih Wu, James C. Sturm, Richard A. Register, Mark E. Thompson, *Applied Physics Letters*, **1996**, *69*, 3117-3119.
69. Growth and Characterization of Electroluminescent Display Devices Using Vacuum-Deposited Organic Materials. Stephen R. Forrest, Paul E. Burrows, and Mark E. Thompson, chapter in *Organic Electroluminescent Materials and Devices*, S. Miyata and H. S. Nalwa, Eds., Gordon and Breach **1997**, 415-458.
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74. A Surface-Emitting Vacuum-Deposited Organic Light Emitting Device. Vladimir Bulovic, Paul Tian, Paul E. Burrows, M. R. Gokhale, Stephen R. Forrest and Mark E. Thompson, *Applied Physics Letters*, **1997**, 70, 2954.
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79. Color-Tunable Pixels and Lasers Using Vacuum-Deposited Organic Thin Films. Paul E. Burrows, Vladimir Bulovic, Vladimir G. Kozlov, Zilan Shen, Stephen R. Forrest and Mark E. Thompson, *SPIE-Int.* **1997**, 3148, 252-263.
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85. US 7,429,426. Organometallic compounds for use in electroluminescent devices; Brown; Cory S. (Monroeville, PA), Knowles; David B. (Apollo, PA), Kwong; Raymond (Plainsboro, NJ), Tung; Yeh-Jiun (Princeton, NJ), Walters; Robert (Export, PA), Djurovich; Peter I. (Long Beach, CA), Thompson; Mark E. (Anaheim, CA), Ma; Bin (Monroeville, PA); Issued: September 30, 2008.
86. US 7,445,855. Cationic metal-carbene complexes; Mackenzie; Peter B. (Murrysville, PA), Walters; Robert (Export, PA), Brooks; Jason (Lambertville, NJ), Thompson; Mark E. (Anaheim Hills, CA); Issued: November 4, 2008.
87. US 7,474,048. Fluorescent filtered electrophosphorescence; Forrest; Stephen R. (Princeton, NJ), Sun; Yiru (Princeton, NJ), Giebink; Noel (Princeton, NJ), Thompson; Mark E. (Anaheim Hills, CA). Issued: January 6, 2009.
88. US 7,482,451. Organic light emitting materials with anionic ligand; Thompson; Mark E. (Anaheim Hills, CA), Djurovich; Peter (Long Beach, CA), Li; Jian (Los Angeles, CA); Issued: January 27, 2009.
89. US 7,488,542. OLEDs doped with phosphorescent compounds; Thompson; Mark E. (Anaheim, CA), You; Yujian (Los Angeles, CA), Shoustikov; Andrei (Los Angeles, CA), Sibley; Scott (Baltimore, MD), Burrows; Paul E. (Princeton Junction, NJ), Forrest; Stephen R. (Princeton, NJ); Issued: February 10, 2009.
90. US 7,491,823. Luminescent compounds with carbene ligands; Thompson; Mark E. (Anaheim, CA), Tamayo; Arnold (Glendale, CA), Djurovich; Peter (Los Angeles, CA), Sajoto; Tissa (Los Angeles, CA); Issued: February 17, 2009.
91. US 7,534,505. Organometallic compounds for use in electroluminescent devices; Lin; Chun (Irwin, PA), Tsai; Jui-Yi (Monroeville, PA), Brooks; Jason (Lambertville, NJ), Alleyne; Bert (Monroeville, PA), Thompson; Mark E. (Anaheim Hills, CA), Djurovich; Peter (Long Beach, CA), Tamayo; Arnold (Glendale, CA), Sajoto; Tissa (Los Angeles, CA), Walters; Robert (Export, PA); Issued: May 19, 2009.
92. US 7,537,844. Organometallic complexes as phosphorescent emitters in organic leds; Thompson; Mark E. (Anaheim, CA), Djurovic; Peter (Long Beach, CA), Lamansky; Sergey (Camarillo, CA), Murphy; Drew (Lakewood, CA), Kwong; Raymond (Plainsboro, NJ), Abdel-Razzaq; Feras (Los Angeles, CA), Forrest; Stephen R. (Princeton, NJ), Baldo; Marc A. (Princeton, NJ), Burrows; Paul E. (Kennewick, WA); Issued: May 26, 2009.
93. US 7,553,557. Organic light emitting devices with electron blocking layers; Thompson; Mark E. (Anaheim, CA), Adamovich; Vadim (Lawrenceville, NJ), Ren; Xiaofan (Los Angeles, CA), Tamayo; Arnold (Glendale, CA), Djurovich; Peter I. (Los Angeles, CA); Issued: June 30, 2009.
94. US 7,553,560. Organometallic compounds and emission-shifting organic electrophosphorescence; Lamansky; Sergey (Maplewood, MN), Thompson; Mark E.

- (Anaheim, CA), Adamovich; Vadim (Los Angeles, CA), Djurovich; Peter I. (Long Beach, CA), Adachi; Chihaya (Hokkaido, JP), Baldo; Marc A. (Princeton, NJ), Forrest; Stephen R. (Princeton, NJ), Kwong; Raymond (Plainsboro, NJ); Issued: June 30, 2009.
95. US 7,563,519. OLEDs doped with phosphorescent compounds; Thompson; Mark E. (Anaheim, CA), You; Yujian (Los Angeles, CA), Shoustikov; Andrei (Los Angeles, CA), Sibley; Scott (Baltimore, MD), Burrows; Paul E. (Princeton Junction, NJ), Forrest; Stephen R. (Princeton, NJ); Issued: July 21, 2009.
96. US 7,582,365. Reversibly reducible metal complexes as electron transporting materials for OLEDs; Walters; Robert (Export, PA), Kwong; Raymond (Plainsboro, NJ), Thompson; Mark E. (Anaheim Hills, CA); Issued: September 1, 2009.
97. US 7,598,381. Near-infrared emitting organic compounds and organic devices using the same; Thompson; Mark E. (Anaheim, CA), Borek; Carsten (Pasadena, CA), Hanson; Kenneth (Los Angeles, CA), Djurovich; Peter (Long Beach, CA), Sun; Yiru (Princeton, NJ), Forrest; Stephen (Ann Arbor, MI), Tamayo; Arnold (Glendale, CA); Issued: October 6, 2009.
98. US 7,598,388. Carbene containing metal complexes as OLEDs; Tsai; Jui-Yi (Monroeville, PA), Barone; Michael S. (Pittsburgh, PA), Tamayo; Arnold (Glendale, CA), Thompson; Mark E. (Anaheim Hills, CA); Issued: October 6, 2009.
99. US 7,601,436. Carbene metal complexes as OLED materials; Djurovich; Peter (Long Beach, CA), Tsai; Jui-Yi (Monroeville, PA), Lin; Chun (Irwin, PA), Brooks; Jason (Lambertville, NJ), Alleyne; Bert (Monroeville, PA), Thompson; Mark E. (Anaheim Hills, CA), MacKenzie; Peter B. (Murrysville, PA), Ma; Bin (Monroeville, PA); Issued October 13, 2009.
100. US7,655,322. OLEDs utilizing macrocyclic ligand systems; Forrest; Stephen R. (Princeton, NJ), Thompson; Mark E. (Anaheim Hills, CA); Issued February 2, 2010.
101. US7,655,323. OLEDs utilizing macrocyclic ligand systems; Walters; Robert (Export, PA), Mackenzie; Peter B. (Murrysville, PA), Thompson; Mark E. (Anaheim Hills, CA), Issued: February 2, 2010.
102. US7,683,536. OLEDs utilizing direct injection to the triplet state; Forrest; Stephen (Princeton, NJ), Brown; Julia J. (Yardley, PA), Thompson; Mark E. (Anaheim Hills, CA); Issued March 23, 2010.
103. US7,714,504. Multicolor organic electroluminescent device formed of vertically stacked light emitting devices; Forrest; Stephen R. (Ann Arbor, MI), Thompson; Mark E. (Anaheim, CA), Burrows; Paul E. (Kennewick, WA), Sapochak; Linda Susan (Arlington, VA), McCarty; Dennis Matthew (Pennsauken, NJ), Issued: May 11, 2010.
104. US7,768,194. Fluorescent filtered electrophosphorescence; Forrest; Stephen (Ann Arbor, MI), Sun; Yiru (Princeton, NJ), Giebink; Noel (Ann Arbor, MI), Thompson; Mark E. (Anaheim Hills, CA); Issued: August 3, 2010.
105. US7,790,298. Organic electronic devices using phthalimide compounds; Hassan; Azad M. (Los Angeles, CA), Thompson; Mark E. (Anaheim, CA); Issued: September 7, 2010.
106. US7,795,430. Reversibly reducible metal complexes as electron transporting materials for OLEDs; Walters; Robert (Export, PA), Kwong; Raymond (Plainsboro, NJ), Thompson; Mark E. (Anaheim Hills, CA); Issued: September 14, 2010.

107. US7,824,778. Binuclear compounds; Thompson; Mark E. (Anaheim, CA), Alleyne; Bert (Los Angeles, CA), Djurovich; Peter (Los Angeles, CA); Issued: November 2, 2010.
108. US7,834,545. Organic optoelectronic device electrodes with nanotubes; Zhang; Daihua (Palo Alto, CA), Ryu; Kounghmin (Los Angeles, CA), Liu; Xiaolei (Los Angeles, CA), Polikarpov; Evgueni (Los Angeles, CA), Ly; James (Los Angeles, CA), Thompson; Mark E. (Anaheim, CA), Zhou; Chongwu (Rowland Heights, CA), Schlenker; Cody (Los Angeles, CA); Issued: November 16, 2010.
109. US7,883,787. Organometallic complexes as phosphorescent emitters in organic LEDs; Thompson; Mark E. (Anaheim, CA), Djurovich; Peter (Long Beach, CA), Lamansky; Sergey (Camarillo, CA), Murphy; Drew (Lakewood, CA), Kwong; Raymond (Plainsboro, NJ), Abdel-Razzaq; Feras (Los Angeles, CA), Forrest; Stephen R. (Princeton, NJ), Baldo; Marc A. (Princeton, NJ), Burrows; Paul E. (Kennewick, WA); Issued: February 8, 2011.
110. US7,893,352. Organic photosensitive optoelectronic device having a phenanthroline exciton Thompson; Mark E. (Anaheim Hills, CA), Li; Jian (Los Angeles, CA), Forrest; Stephen (Princeton, NJ), Rand; Barry (Princeton, NJ); Issued: February 22, 2011.
111. US7,901,795. OLEDs doped with phosphorescent compounds; Thompson; Mark E. (Anaheim, CA), You; Yujian (Los Angeles, CA), Shoustikov; Andrei (Los Angeles, CA), Sibley; Scott (Baltimore, MD), Burrows; Paul E. (Princeton Junction, NJ), Forrest; Stephen R. (Princeton, NJ); Issued: March 8, 2011.
112. US7,956,192. Carbene containing metal complexes as OLEDs; Tsai; Jui-Yi (Monroeville, PA), Barone; Michael S. (Pittsburgh, PA), Tamayo; Arnold (Glendale, CA), Thompson; Mark E. (Anaheim Hills, CA); Issued: June 7, 2011.
113. US7,973,307. Organic photosensitive devices using subphthalocyanine compounds; Rand; Barry (Princeton, NJ), Forrest; Stephen R. (Ann Arbor, MI), Mutolo; Kristin L. (Hollywood, CA), Mayo; Elizabeth (Alhambra, CA), Thompson; Mark E. (Anaheim Hills, CA); Issued: July 5, 2011.
114. US7,989,090. Near infrared emitting organic compounds and organic devices using the same; Thompson; Mark E. (Anaheim, CA), Borek; Carsten (Pasadena, CA), Hanson; Kenneth (Los Angeles, CA), Djurovich; Peter (Long Beach, CA), Sun; Yiru (Princeton, NJ), Forrest; Stephen (Ann Arbor, MI), Tamayo; Arnold (Glendale, CA); Issued: August 2, 2011.
115. US8,007,926. Luminescent compounds with carbene ligands; Thompson; Mark E. (Anaheim, CA), Tamayo; Arnold (Glendale, CA), Djurovich; Peter (Long Beach, CA), Sajoto; Tissa (Los Angeles, CA); Issued: August 30, 2011.
116. US8,043,724. Phenyl and fluorenyl substituted phenyl-pyrazole complexes of Ir; Thompson; Mark E. (Anaheim, CA), Tamayo; Arnold (Glendale, CA), Djurovich; Peter (Los Angeles, CA); Issued: October 25, 2011.
117. US8,105,700. Materials and structures for enhancing the performance of organic light emitting devices. Thompson; Mark E. (Anaheim Hills, CA), Kwong; Raymond (Plainsboro, NJ), Tung; Yeh-Jiun (Princeton, NJ), Brooks; Jason (Lambertville, NJ). Issued: January 31, 2012.
118. US8,114,533 Carbene metal complexes as OLED materials. Djurovich; Peter (Long Beach, CA), Tsai; Jui-Yi (Monroeville, PA), Lin; Chun (Irwin, PA), Brooks; Jason

- (Lambertville, NJ), Alleyne; Bert (Monroeville, PA), Thompson; Mark E. (Anaheim Hills, CA), MacKenzie; Peter B. (Murrysville, PA), Ma; Bin (Monroeville, PA). Issued: February 14, 2012.
119. US8,158,972 Organic photosensitive optoelectronic devices containing tetra-azaporphyrins. Thompson; Mark E. (Anaheim, CA), Forrest; Stephen R. (Ann Arbor, MI), Mayo; Elizabeth (San Jose, CA), Mutolo Martinez; Kristin L. (Gilbert, AZ), Bailey-Salzman; Rhonda F. (San Ramon, CA). Issued: April 17, 2012.
 120. US8,242,493 Organic photosensitive devices using subphthalocyanine compounds. Rand; Barry (Leuven, BE), Forrest; Stephen R. (Ann Arbor, MI), Mutolo; Kristin L. (Hollywood, CA), Mayo; Elizabeth (Ann Arbor, MI), Thompson; Mark E. (Anaheim Hills, CA). Issued: August 14, 2012.
 121. US8,293,385 Organic electronic devices using phthalimide compounds. Hassan; Azad M. (Los Angeles, CA), Thompson; Mark E. (Anaheim, CA). Issued: October 23, 2012.
 122. US8,328,803 Transparent contacts for organic devices. Forrest; Stephen R. (Ann Arbor, MI), Thompson; Mark E. (Anaheim, CA), Burrows; Paul E. (Kennewick, WA), Sapochak; Linda Susan (Arlington, VA), McCarty; Dennis Matthew (Pennsauken, NJ). Issued: December 4, 2012.
 123. US8,372,528 Phenyl and fluorenyl substituted phenyl-pyrazole complexes of Ir. Thompson; Mark E. (Anaheim, CA), Tamayo; Arnold (Glendale, CA), Djurovich; Peter (Los Angeles, CA). Issued: February 12, 2013.
 124. US8,399,109 Organic electronic devices using phthalimide compounds. Hassan; Azad M. (Los Angeles, CA), Thompson; Mark E. (Anaheim, CA). Issued: March 19, 2013.
 125. US8,426,041 Carbene metal complexes as OLED materials. Djurovich; Peter (Long Beach, CA), Tsai; Jui-Yi (Monroeville, PA), Lin; Chun (Irwin, PA), Brooks; Jason (Lambertville, NJ), Alleyne; Bert (Monroeville, PA), Thompson; Mark E. (Anaheim Hills, CA), MacKenzie; Peter B. (Murrysville, PA), Ma; Bin (Monroeville, PA). Issued: April 23, 2013.
 126. US8,465,851 Materials and structures for enhancing the performance of organic light emitting devices. Thompson; Mark E. (Anaheim Hills, CA), Kwong; Ryamond (Plainsboro, NJ), Tung; Yeh-Jiun (Princeton, NJ), Brooks; Jason (Lambertville, NJ). Issued: June 18, 2013.
 127. US8,545,996 Ion-paring soft salts based on organometallic complexes and their applications in organic light emitting diodes. Thompson; Mark E. (Anaheim, CA), Wu; Chao (Nanjing, CN), Chen; Hsiao-Fan (Taipei County, TW). Issued: October 1, 2013.
 128. US8,557,402 Organometallic complexes as phosphorescent emitters in organic LEDs. Thompson; Mark E. (Anaheim, CA), Djurovich; Peter (Long Beach, CA), Lamansky, Sergey (Camarillo, CA), Murphy; Drew (Lakewood, CA), Kwong; Raymond (Plainsboro, NJ), Abdel-Razzaq; Feras (Los Angeles, CA), Forrest; Stephen R. (Princeton, NJ). Baldo; Marc A. (Princeton, NJ), Burrows; Paul E. (Kennewick, WA). Issued: October 15, 2013.
 129. US8,574,726 Organometallic complexes as phosphorescent emitters inorganic LEDs. Thompson; Mark E. (Anaheim, CA), Djurovich; Peter (Long Beach, CA), Lamansky, Sergey (Camarillo, CA), Murphy; Drew (Lakewood, CA), Kwong; Raymond (Plainsboro, NJ),

- Abdel-Razzaq; Feras (Los Angeles, CA), Forrest; Stephen R. (Princeton, NJ). Baldo; Marc A. (Princeton, NJ), Burrows; Paul E. (Kennewick, WA). Issued: November 5, 2013.
130. US8,609,333 Detection of methylated DNA and DNA mutations. Zhou; Chongwu (Arcadia, CA), Thompson; Mark E. (Anaheim, CA), Yang; Allen S. (Valencia, CA), Cote; Richard James (Miami, FL). Issued: December 17, 2013.
131. US8,785,624 Organic photosensitive optoelectronic devices with nonplanar porphyrins. Thompson; Mark E. (Anaheim, CA), Perez; Maria Dolores (Marina Del Rey, CA), Borek; Carsten (Pasadena, CA). Issued: July 22, 2014.
132. US8,786,179 Light emitting device comprising phosphorescent materials for white light generation. Thompson; Mark E. (Anaheim, CA), Dapkus; P. Daniel (Fullerton, CA). Issued: July 22, 2014.
133. US8,808,881 Phenyl and fluorenyl substituted phenyl-pyrazole complexes of Ir. Thompson; Mark E. (Anaheim, CA), Tamayo; Arnold (Glendale, CA), Djurovich; Peter (Long Beach, CA). Issued: August 19, 2014.
134. US8,822,042 Luminescent cyclometallated iridium (III) complexes having acetylide ligands. Thompson; Mark E. (Anaheim, CA), Bossi; Alberto (Gallarate, IT), Djurovich; Peter Ivan (Los Angeles, CA). Issued: September 2, 2014.
135. US8,829,789 Organic optoelectronic device electrodes with nanotubes. Zhang; Daihua (Palo Alto, CA), Ryu; Kounghmin (Los Angeles, CA), Liu; Xiaolei (Los Angeles, CA), Polikarpov; Evgueni (Los Angeles, CA), Thompson; Mark E. (Anaheim, CA), Zhou; Chongwu (Rowland Heights, CA), Schlenker; Cody (Los Angeles, CA). Issued: September 9, 2014.
136. US8,945,722 Materials and architectures for efficient harvesting of singlet and triplet excitons for white light emitting OLEDs. Thompson; Mark E. (Anaheim, CA), Forrest; Stephen (Ann Arbor, MI). Issued: February 3, 2015.
137. US9,017,826 Visible/near-infrared porphyrin-tape/C60 organic photodetectors. Forrest; Stephen R. (Ann Arbor, MI), Zimmerman; Jeramy D. (Ann Arbor, MI), Thompson; Mark E. (Anaheim Hills, CA), Diev; Viacheslav (Los Angeles, CA), Hanson; Kenneth (Carrboro, North Carolina). Issued: April 28, 2015.
138. US9,029,837 Photoactive devices including porphyrinoids with coordinating additives. Forrest; Stephen R. (Ann Arbor, MI), Zimmerman; Jeramy (Ann Arbor, MI), Yu; Eric K. (Ann Arbor, MI), Thompson; Mark E. (Anaheim, CA), Trinh; Cong (Los Angeles, CA), Whited; Matthew (Northfield, MN), Diev; Viacheslav (Los Angeles, CA). Issued: May 12, 2105.
139. US9,079,885 Fluorescent isoindoline dyes. Thompson; Mark E. (Anaheim, CA), Hanson; Kenneth (Los Angeles, CA), Djurovich; Peter (Long Beach, CA). Issued: July 14, 2015
140. US9,113,535 Fusing porphyrins with polycyclic aromatic hydrocarbons and heterocycles for optoelectronic applications. Thompson; Mark E. (Anaheim, CA), Diev; Viacheslav (Los Angeles, CA), Hanson; Kenneth (Carrboro, NC), Forrest; Stephen R. (Ann Arbor, MI). Issued: August 18, 2015.
141. US9,356,245 Carbene metal complexes as OLED materials. Djurovich, Peter (Long Beach, CA, US), Tsai, Jui-yi (Monroeville, PA, US), Lin, Chun (Langhorne, PA, US),

Brooks, Jason (Lambertville, NJ, US), Alleyne, Bert (Monroeville, PA, US), Thompson, Mark E. (Anaheim Hills, CA, US), Mackenzie, Peter B. (Murrysville, PA, US), Ma, Bin (Monroeville, PA, US). Issued: May 31, 2016.

142. US9,391,284 Organic photosensitive optoelectronic devices with triplet harvesting. Thompson, Mark E. (Anaheim, CA, US), Perez, Maria Dolores (Marina del Rey, CA, US), Borek, Carsten (Heldenfingen, DE), Djurovich, Peter I. (Long Beach, CA, US). Issued: July 12, 2016.

Invited talks at conferences and symposia

1988

"Organic Materials for Nonlinear Optics - I" Conference; Oxford; UK

1989

Northwest Regional ACS Meeting; Reno; Nevada; "Synthesis of New Materials"

1990

"Organic Materials for Nonlinear Optics - II" Conference; Oxford; UK

"Symposium on Synthesis of Novel Inorganic Solids"; New Orleans; LA

1991

10th International Conference on the Organic Solid State; Vancouver; BC

1992

Florida Advanced Materials Conference; Palm Coast; FL

Solid-State Ionics Gordon Conference

Organometallic Gordon Conference

"Organic Materials for Nonlinear Optics - III" Conference; Oxford; UK

"New Directions in Solid-State Chemistry"; Washington DC; ACS Meeting.

"Energy; Environment and Technological Innovation"; Rome Italy 1993,

"Ordered Materials by Design" Symposium; Boston MRS Meeting

Florida Advanced Materials Conference; Palm Coast; FL

Layered and Zeolitic Materials Gordon Conference 1994,

Electronic Materials Conference; Organic Thin Films; Boulder CO

Donor/Acceptor Gordon Conference

Interamerican Photochemical Society Conference; Daytona Beach; FL

Organometallic Materials Symposium; Washington DC; ACS Meeting 1995,

"JRCAT Symposium on Nanoscale Self-Organization"; Tokyo Japan

CSC Conference; New Materials from Inorganics; University of Guelph; Canada

Topical Conference on Flat Panel Display Technologies; IEEE; Keystone; CO

California Catalysis Society Meeting; Santa Barbara 1996,

Interamerican Photochemical Society Conference; Iguazu; Brazil

Solid-State Chemistry Gordon Conference

Combined American Physical Society and American Chemical Society Conference;

"Optoelectronic Properties of Organic Materials"; Orlando FL

International Conference on Electroluminescence; Rochester; NY

1997

4th Int. Conference on Frontiers in Polymers and Advanced Materials; Cairo; Egypt.

DOE workshop on molecular solid state chemistry; Austin TX.

International Conference on Electroluminescence of Molecular Materials and Related Phenomena; Kitakyushu; Japan.

New Directions in Materials Synthesis. ACS Meeting; Las Vegas

Electroluminescence in Molecular Materials. American Vac. Society; San Jose; CA.

Electronic Processes in Organic Materials Symposium. Boston MRS Meeting

1998

Electrochemistry Gordon Conference. Ventura; CA
New Vistas in Inorganic Chemistry Symposium. University of Hong Kong
International Conference of Phosphorus Chemistry; Cincinnati; OH
International Phosphor Conference; Bend OR

1999

Advanced Techniques in Molecular Materials Workshop; Hong Kong
Commercialization Advances in Small Molecule and Polymer Organic Light Emitting
Devices. San Diego; CA
2nd ICEL: Int. Conference on Electroluminescence and Related Phenomena; Sheffield;
England
Organic Electroluminescent Materials and Devices; Hong Kong
Organometallic Gordon Conference; Rhode Island

2000

NSF Materials Chemistry Workshop; Minneapolis
Photonics West Conference; San Jose
Spring Materials Research Society meeting; San Francisco
First International Conference on Porphyrins and Phthalocyanines; Dijon France
SPIE conference; San Diego
Society for Information Display; International Display Research Conference
West Palm Beach; Florida
The 10th International Workshop on Inorganic and Organic Electroluminescence;
Hamamatsu; Japan
Polymer Millennial 2000 Meeting; Waikoloa; Hawaii
Pacifichem 2000 Congress; Waikiki; Hawaii

2001

Discovery Chemistry Seminar Series lecturer; DuPont C; R & D
Weissberger-Williams lecturer; Eastman Kodak Company; Rochester.
Rank Prize Fund Symposium; Symposium: "Creating the Right Image";
Lake District; England
Canadian Society for Chemistry Annual Meeting; Symposium: "Materials for use in
Optoelectronics"; Montreal; Canada
Gordon Research Conference: "Chemistry of Electronic Materials"; Connecticut ,College;
Connecticut
SPIE Annual Meeting; San Diego; Symposium: "Solid State Lighting"
International Meeting on Information Display; Taegu; Korea
International Conference on Electroluminescence and Related Phenomena; Los Angeles
Society for Information Display; 1st Annual Emissive Displays and Lighting Workshop;
San Diego; California
MIT Materials Day; Plenary Speaker
MRS; Annual Meeting; Boston; Symposium: Solid State Lighting

2002

Boston ACS meeting; Inorganic Photophysics
IAMS Symposium on Preparation of New Materials for LC and EL Display; Institute of
Advanced Material Study; Kyushu University
Heraeus Seminar on Organic Electronics; Bonn; Germany

2003

MRS meeting; Organic Electronics Symposium; San Francisco
NSF Workshop on Optical Materials Chemistry and Processing; Rochester; NY
NSF Inorganic Chemistry Workshop; Grand Tetons; WY
NSF Workshop; Optoelectronic Materials; Seattle; WA
4th International Conference on Electroluminescence and Related Phenomena; Degu Island; Korea
Organic Light Emitting Diode Workshop; Hong Kong
European Conference on Organic Electronics and Related Phenomena 2003; Kent; England
New Frontiers in Electronic Applications for Organic Materials; University of Delaware

2004

Midwest Organic Solid State Chemistry Symposium; Carbondale; Illinois
XXIst International Conference on Organometallic Chemistry; Vancouver
BASF Research Seminar; St. Johann; Germany
The International Symposium on Super-Functionality; Chiba; Japan

2005

5th International Conference on Electroluminescence and Related Phenomena; Tempe
Society for Information Display; Boston
Pacific Rim Conference on Lasers and Electro-Optics; Tokyo
Organic Semiconductors and Conductors: Half Century and Future Prospects;
Tomakomai; Japan
Pacifichem International Meeting: Symposium on organic electroluminescence;
Honolulu; Hawaii

2006

Society of Information Display; San Francisco; Award address
International Symposium on Molecular Photophysics; St. Petersburg, Russia
Organometallic Gordon Conference; Newport, Rhode Island
Electroluminescence-2006; Jeju Island, Korea
Organic Chemistry since Buterov and Beilstein; St. Petersburg; Russia
6th International Conference on Electroluminescence and Related Phenomena; City University
of Hong Kong, Hong Kong
Society for Information Displays Annual Meeting; Long Beach, CA

2007

MC8: Advancing Materials by Chemical Design; London, England
2nd International Conference on Plastic Electronics; Frankfurt, Germany

International Conference on Molecular Photonics: Interaction of Light with Nanostructured Materials; Harbor Island, WA
6th Brazilian MRS Meeting; Natal, Brazil

2008

Spring MRS Meeting; San Francisco,
ACS Meeting; New Orleans, LA
University of Calgary, Canada
University of Alberta; Canada
10th International Conference on Organic Nonlinear Optics; Santa Fe, NM
IV International Krutyn Summer School 2008: Frontiers in Molecular Optoelectronics – Organic Light Emitting Devices; Krutyn, Poland
Photochemistry 2008: Fundamentals and Applications; Holland Research School of Molecular Chemistry, HRSMC Summer School; Maastricht, Netherlands
7th International Conference on Electroluminescence of Molecular Materials and Related Phenomena; Dresden, Germany;
MRS National Meeting; Boston, MA
Bowling Green State University; Bowling Green, OH
Asia Optical Fiber and Optoelectronics Exhibit and Conference; Shanghai, China;

2009

18th International Symposium on the Photochemistry and Photophysics of Coordination Compounds; Sapporo, Japan
Optics and Photonics for Advanced Energy Technology Workshop; Boston, MA
Recent Development of Luminescent Metal Complexes as Emerging Functional Materials; Tokyo, Japan
ACS National Meeting; Salt Lake City, UT
The 8th International Conference on Optical Probes of Conjugated Polymers and Organic Nanostructure, Beijing, China
Fall MRS Meeting, Symp S: Organic Materials & Devices for Sustainable Energy Systems, Boston, MA
5th Annual Minnesota Nanotechnology Conference; Minneapolis, MN
MRS; Boston, MA
Argonne-Northwestern Solar Energy Research Center, Evanston, IL
Departmental Seminar; Northwestern University; Evanston, IL

2010

Spring MRS Meeting, Symp HH: Organic Photovoltaic Science and Technology, San Francisco, CA
UC San Diego; San Diego, CA
The Ohio State University; Columbus, OH
Solid-State Chemistry Gordon Conference; Colby Sawyer College; New London, NH
American Chemical Society Meeting; Boston, MA
First International Meeting on Organic Materials for a Better Future, Ostuni, Italy

The 3rd International Symposium for Emergence of New Molecular Chemistry; Tokyo
Institute of Technology; Tokyo, Japan
PacifiChem Conference, Honolulu, HI

2011

AAAS Meeting, Washington DC, Invited Speaker
King Abdulla University of Science and Technology (KAUST) Annual Meeting, Jedha,
Saudi Arabia.
NSF Division of Materials Workshop on “Materials by Design”, Santa Barbara, CA
USC-Department of Energy Conference on Materials for Energy Applications, Palos Verdes,
CA
Organic Photovoltaic Summer School, Wurzburg, Germany
19th International Symposium on the Photophysics and Photochemistry of Coordination
Compounds, Strasbourg, France
Fall ACS Meeting, Denver, CO
Georgia Tech – COPE Distinguished Lecturer, Atlanta GA

2012

Seminars during my sabbatical: Universität Konstanz, IBM Zurich, Universität Augsburg,
Universität Regensburg, Universität Wurzburg, Universität Karlsruhe, Universität
Dresden
95th Canadian Society for Chemistry (CSC) Conference, Calgary, Canada
International Conference on Electroluminescence and Related Phenomena. Fukuoka, Japan
SID Conference, London
XIIth International Summer School in Organic Electronics, Krutyn, Poland, October 1.
6th International Conference on Molecular Electronics, Grenoble, France, December 3.

2013

Ferrara and Milan Universities, Departmental Seminars, Italy, February.
German Physical Society Meeting, Regensburg, Germany, February 11.
Department of Materials Science and Engineering, colloquium, April 19.
UC Irvine, Department of Chemistry Colloquium, May 10.
UC Davis, Department of Chemistry Colloquium, May 14.
Michigan State University, Department of Chemical Engineering Colloquium, May 17.
Organic Electronics Summer School, Biarritz, France, May 31.
11th international Conference in Functional π -Systems, Arcachon, France, June 6.
SPIE Meeting, San Diego, CA, August 24.
ACS Meeting Indianapolis, IN, September 7-10.
MRS Meeting (Tutorial and Invited talk), Boston, MA, November 30-December 3.

2014

Earnest Swift Lecturer, California Institute of Technology, March
International Conference on Porphyrins and Phthalocyanines, Istanbul, Turkey, June 22-30.
ACS Meeting, San Francisco, August 10-13.
International Conference on Electroluminescence and Related Phenomena, Cologne, Germany,
August 30-September 3
OLED World Summit, Berkeley, CA, September 15-17.

Next Generation Solar Energy Conference, SCIALOG, Tucson, AZ, October 14-17.
578th Wilhelm and Else Heraeus-Seminar on “Charge-Transfer Effects in Organic Heterostructures: Fundamentals and Applications”, the German Physical Society, Bad Honef, Germany, December 8-12.

2015

Chemistry Seminar at the Claremont-McKenna Colleges, February 3.
Chemistry of Materials Award Address, ACS National Meeting, Denver, CO, March 24.
Departmental Seminar, Chemistry, Florida State University, April 10.
Chemistry Seminar, Tianjin University, Tianjin, China, May 5.
Chemistry Seminar, Peking University, Beijing, China, May 8.
Chemistry Seminar, Nanjing University, Nanjing, China, May 11.
Keynote Lecture: 4th International Symposium on Energy Challenges and Mechanics (ECM4) - working on small scales, Aberdeen, Scotland, August 11-13.
Invited talk: European Conference of Molecular Electronics (ECME 2015), Strasbourg, France, September 1-5.
Invited Talk: Next Generation Solar Energy, Cuban Chemical Society, Havana, Cuba, October 13-16.
Departmental Seminar, Chemistry, University of North Carolina, Chapel Hill, North Carolina, October 20.
Departmental Seminar, Chemistry, Duke University, Durham, North Carolina, October 21
Invited Talk: Advances in Light Emitting Diodes session, the International Chemical Congress of Pacific Basin Societies 2015, Honolulu, Hawaii, December 16-18.

2016

Invited Talk and Panelist: Department of Energy Solid-State Lighting Workshop, Raleigh, North Carolina, January 2-4.
Invited Talk: Materials Research Society Meeting, Phoenix, AZ, March 28-31.
Invited Talk: Solar Energy Conversion Gordon Conference, Hong Kong, July 17-21.
Invited Talk: International Conference on Electroluminescence and Related Phenomena, Raleigh, North Carolina, October 2-5.
Invited Talk: Emerging Energies Technologies Summit and Exhibition, Melbourne, Australia, December 6.

2017

American Chemical Society National Meeting, San Francisco, April 5.
Departmental Seminar: Materials Science, University of Michigan, Ann Arbor, MI, April 7.
Invited Lecture: MRS National Meeting, Phoenix, AZ, April 19.
Keynote Lecture: Applications of Photoactive Coordination Compounds, St. Andrews, Scotland, July 6.
Plenary Lecture: International Conference on Photochemistry, Strasbourg, France, July 19.
Invited Lecture: SPIE Meeting, San Diego, CA, August 7.
Invited Lecture: ACS National Meeting, Washington DC, August 21

In addition to invited talks at conferences I have presented over 150 seminars at universities and companies; as well as more than 75 contributed papers at conferences; workshops; *etc.*

Professional Service:

- 2012 – present, Member external advisory board for the Partnership for Research and Education in Materials program at the University of Texas at El Paso.
- 2005 – 2008, Chairman of the USC Chemistry Department
- 2005 – 2012, Member of the senior advisory board for the Minority Opportunities in Research Program at California State University, Los Angeles
- 2005 – present: Member of the external advisory board for the Department of Chemistry at Academia Sinica, Taiwan.
- 2000 – 2005, Member of the University Committee on Academic Review; USC
- 1999 – 2005, Representative of the Inorganic/Biochemistry Division of the USC Chemistry Department
- 1998-2003, Editorial Board of “Chemistry of Materials”
- 1997-2001, Director of the NSF Summer Undergraduate Research Program in Solid-State Chemistry; program involves a ten week research program for 20 undergraduates and 5 college professors per year.
- 1995 - 2001, Assistant Director; Airforce Office of Scientific Research MURI Center; “Materials and Processing at the Nanometer Scale”
- 1991-94, Alternate Councilor; Princeton Section of the American Chemical Society.
- 1990-92, Secretary/Treasurer; Princeton Section of the American Chemical Society.
- 1989-1991, Director of Undergraduate Research Program; Princeton University