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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

- 2/11 Ranked 12<sup>th</sup> 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 for the development of new materials for organic LEDs
- 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, for multicolor organic light emitting devices.
- 3/98 Distinguished Inventor of the Year, awarded by The Intellectual Property Owners Association for the development of stacked multicolor organic LEDs.

**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. “ $\sigma$  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  $\{(\eta-C_5H_5)_2Fe_2(CO)_2(\mu-CO)(\mu-E)-CCH=CHC_6H_4NMe_2\}^+BF_4^-$ . 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; [(SALEN)MnO<sub>2</sub>CCH<sub>2</sub>D-B]<sub>n</sub>, 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 Ba[V<sub>2</sub>(HPO<sub>4</sub>)<sub>4</sub>](H<sub>2</sub>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 Cs[V<sup>III</sup>(PO<sub>4</sub>)(HPO<sub>4</sub>)(H<sub>2</sub>O)<sub>2</sub>] and K[(V<sup>IV</sup>O)V<sup>III</sup>(HPO<sub>4</sub>)<sub>3</sub>(H<sub>2</sub>O)<sub>2</sub>]. 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<sup>+</sup> Cations: Hydrothermal Synthesis and Crystal Structure of a Mixed Valence Vanadium Phosphate K<sub>2</sub>[(V<sup>IV</sup>O)<sub>2</sub>V<sup>III</sup>(PO<sub>4</sub>)<sub>2</sub>(HPO<sub>4</sub>)(H<sub>2</sub>O)<sub>2</sub>]. 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  $\text{Cs}[(\text{V}_2\text{O}_3)(\text{HPO}_4)_2(\text{H}_2\text{O})]$ , a Mixed Valence Vanadium (IV, V) Hydrogen Phosphate with a One-Dimensional ( $-\text{V}^{\text{IV}}-\text{O}-\text{V}^{\text{V}}-\text{O}-$ ) Chain of Corner Sharing  $\text{VO}_6$  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:  $\text{H}_2\text{NC}_4\text{H}_8\text{NH}_2[(\text{V}^{\text{IV}}\text{O})_2(\text{HAsO}_4)_2(\text{H}_2\text{AsO}_4)_2]$  and  $\text{H}_3\text{NCH}_2\text{CH}_2\text{NH}_3[\text{V}^{\text{III}}(\text{HAsO}_4)_2(\text{H}_2\text{AsO}_4)]\cdot\text{H}_2\text{O}$ . 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:  $\text{Zr}_2(\text{O}_3\text{PCH}_2\text{CH}_2\text{-viologen-CH}_2\text{CH}_2\text{PO}_3)\text{F}_6\cdot 2\text{H}_2\text{O}$ . Damodara Poojary, Lori A. Vermeulen, Edward Vicenzi, Abraham Clearfield, Mark Thompson, *Chemistry of Materials*, **1994**, 6(10), 1845-1849.
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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.
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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.

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65. Organic Films Deposited on Si *p-n* junctions: Accurate Measurements of Fluorescence Internal Efficiency, and Application to Luminescent Antireflection Coatings. D. V. Garbuzov, Stephen R. Forrest, A.G. Tsekouni, Paul E. Burrows, Vladimir Bulovic, Mark E. Thompson *Journal of Applied Physics*, **1996**, 80, 4644-4648.
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.
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37. US6,365,270 B2: Organic Light emitting devices. Forrest, Stephen Ross; Thompson, Mark Edward; Burrows, Paul Edward; Sapochak, Linda Susan; McCarty, Dennis Matthew; Issued: April 2, 2002.
38. US6,387,544: OLEDs containing thermally stable glassy organic hole transporting materials. Thompson, Mark E.; Loy, Douglas; Forrest, Stephen R.; Koene, Bryan E.; O'Brien, Diarmuid; Issued: May 14, 2002.
39. US6,413,656: Reduced symmetry porphyrin molecules for producing enhanced luminosity from phosphorescent organic light emitting devices. Thompson, Mark E.; Kwong, Raymond C.; Issued: July 2, 2002.

40. US6,451,455: Metal complexes bearing both electron transporting and hole transporting moieties. Thompson, Mark; You, Yujian; Shoustikov, Andrei; Burrows, Paul E.; Forrest, Stephen R.;  
Issued: September 17, 2002.
41. US6,506,505: Cyclooctatetraenes as electron transporters in organic light emitting diodes. Weber, William P.; Lu, Ping; Thompson, Mark E.; Hong, Haiping; Issued: January 14, 2003.
42. US6,508,979: Layered nanofabrication. Requicha, Aristides A. G.; Koel, Bruce E.; Resch, Roland; Lewis, Diana; Thompson, Mark E.; Issued: January 21, 2003.
43. US6,515,298 B2: Intersystem crossing agents for efficient utilization of excitons in organic light emitting devices. Forrest, Stephen R.; Thompson, Mark E.; Baldo, Marc A.; Issued: February 4, 2003.
44. US6,548,956: Transparent contacts for organic devices. Forrest, Stephen R.; Thompson, Mark E.; Burrows, Paul E.; Bulovic, Vladimir; Gu, Gong; Issued: April 15, 2003.
45. US6,579,632 B2: OLEDs doped with phosphorescent compounds. Thompson, Mark E.; You, Yujian; Shoustikov, Andrei; Sibley, Scott; Burrows, Paul E.; Forrest, Stephen R.;  
Issued: June 17, 2003.
46. US6,582,838 B2: Red-Emitting Organic Light Emitting Devices (OLED's). Burrows, Paul; Forrest, Stephen R.; Thompson, Mark E.; Issued: June 24, 2003.
47. US6,596,134 B2: Method of Fabricating Transparent Contacts for Organic Devices. Forrest, Stephen R.; Thompson, Mark E.; Burrows, Paul E.; Bulovic, Vladimir; Gu, Gong; Issued: July 22, 2003.
48. US6,597,110: Titanium nitride anode for use in organic light emitting devices. Thompson, Mark E.; Adamovich, Vadim; Shoustikov, Andrei; Issued: July 22, 2003.
49. US6,687,266: Organic light emitting materials and devices. Ma, Bin; Knowles, David B.; Brown, Cory S.; Murphy, Drew; Thompson, Mark E.; Issued: February 3, 2004.
50. US6,830,828. Organometallic complexes as phosphorescent emitters in organic LEDs Thompson, Mark E; Djurovich, Peter; Lamansky, Sergey; Forrest, Stephen R.; Baldo, Marc A.; Burrows, Paul E.; Issued: December 14, 2004.
51. US6,835,469. Phosphorescent compounds and devices comprising the same; Kwong, Raymond C.; Knowles, David B.; Thompson, Mark E.; Issued: December 28, 2004.
52. US6,863,997. White light emitting OLED's from combined monomer and aggregate emission; Kwong, Raymond; Knowles, David B.; Thompson, Mark E.; Issued: March 8, 2005.
53. US6,869,695. White light emitting OLED's from combined monomer and aggregate emission; Thompson, Mark E.; Brooks, Jason; Adamovich, Vadim; Forrest, Stephen R.; D'Andrade, Brian; Issued: March 22, 2005.
54. US6,872,477. OLEDs doped with phosphorescent compounds; Thompson, Mark E.; You, Yujian; Shoustikov, Andrei; Sibley, Scott; Burrows, Paul E.; Forrest, Stephen R.; Issued: March 29, 2005.

55. US6,894,307. Intersystem crossing agents for efficient utilization of excitons in organic light emitting devices; Forrest, Stephen R.; Thompson, Mark E.; Baldo, Marc A.; Issued: May 17, 2005.
56. US6,902,830. Organometallic complexes as phosphorescent emitters in organic LEDs; Thompson, Mark E.; Djurovich, Peter; Lamansky, Sergey; Murphy, Drew; Kwong, Raymond; Abdel-Razzaq, Feras; Forrest, Stephen R.; Baldo, Marc A.; Burrows, Paul E.; Issued: June 7, 2005.
57. US6,902,833. Materials and structures for enhancing the performance of organic light emitting devices; Thompson, Mark E.; Garon, Simona; Kwong, Raymond; Brooks, Jason; Lu, Min-Hao Michael; Issued: June 7, 2005.
58. US6,911,271. Organometallic platinum complexes for phosphorescence based organic light emitting devices; Lamansky, Sergey; Thompson, Mark E., Issued: June 28, 2005.
59. US6,916,554. Organic light emitting materials and devices; Ma, Bin; Walters, Robert W.; Knowles, David B.; Kwong, Raymond; Tung, Yeh-Jiun; Djurovich, Peter I.; Thompson, Mark E., Issued: July 12, 2005.
60. US6,939,624. Organometallic compounds and emission-shifting organic electrophosphorescence; Lamansky, Sergey; Thompson, Mark E.; Adamovich, Vadim; Djurovich, Peter I.; Adachi, Chihaya; Baldo, Marc A.; Forrest, Stephen R.; Kwong, Raymond, Issued: September 6, 2005.
61. 6,951,694. Organic light emitting devices with electron blocking layers; Thompson, Mark E.; Adamovich, Vadim; Ren, Xiaofan; Tamayo, Arnold; Djurovich, Peter I., Issued: October 4, 2005.
62. US7,001,536. Organometallic complexes as phosphorescent emitters in organic LEDs; Thompson, Mark E.; Djurovic, Peter; Lamansky, Sergey; Murphy, Drew; Kwong, Raymond; Abdel-Razzaq, Feras; Forrest, Stephen R.; Baldo, Marc A.; Burrows, Paul E., Issued: February 21, 2006.
63. US7,009,738. High efficiency multi-color electro-phosphorescent OLEDs; D'Andrade, Brian; Thompson, Mark E.; Forrest, Stephen R., Issued: March 7, 2006.
64. US7,011,897. Organic light emitting materials and devices. Thompson; Mark E.; Djurovich, Peter; Kwong, Raymond; Tung, Yeh-Jiun; Knowles, David B.; Brooks, Jason; Walters, Robert W.; Ma, Bin, Issued: March 14, 2006.
65. US7,018,723. Materials and structures for enhancing the performance of organic light emitting devices; Thompson, Mark E.; Kwong, Raymond; Tung, Yeh-Jiun, Issued: March 28, 2006.
66. US7,022,421. Organic light emitting devices having carrier blocking layers comprising metal complexes; Thompson, Mark E.; Ren, Xiaofan; Adamovich, Vadim; Cordero, Steven; D'Andrade, Brian Wendell; Alleyne, Bert; Forrest, Stephen R., Issued: April 4, 2006
67. US7,070,867. OLEDs having n-type doping, Mark E. Thompson; Simona Garon, Issued: July 4, 2006.

68. US7,078,113. Organic light emitting devices having carrier transporting layers comprising metal complexes; Thompson, Mark E.; Ren, Xiaofan; Djurovich, Peter; Hong, Haiping; Forrest, Stephen R.; Adachi, Chihaya; Issued: July 18, 2006.
69. US7;090;928. Binuclear Compounds; Thompson; Mark E. , Alleyne; Bert , Djurovich; Peter, Issued: August 15, 2006.
70. US7,154,114. Cyclometallated iridium carbene complexes for use as hosts ; Brooks, Jason; Li, Xiao-Chang; Alleyne, Bert; Thompson, Mark E.; Djurovich, Peter; Tamayo, Arnold; Issued: December 6, 2006
71. US7,173,369. Transparent contacts for organic devices; Forrest, Stephen R.; Thompson, Mark E.; Burrows, Paul E.; Bulovic, Vladimir; Gu, Gong; Issued: February 6, 2007
72. US7,230,269. Organic photosensitive cells having a reciprocal-carrier exciton blocking layer; Rand, Barry P.; Forrest, Stephen R.; Thompson, Mark E.; Issued: June 12, 2007.
73. US7,261,954. Organic light emitting devices having carrier blocking layers comprising metal complexes; Thompson, Mark E.; Ren, Xiaofan; Adamovich, Vadim; Cordero, Steven R.; D'Andrade, Brian Wendell; Alleyne, Bert; Forrest, Stephen R.; Issued: August 28, 2007.
74. US7,279,235. 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., Issued: October 9, 2007.
75. US7,279,237. 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., Issued: October 9, 2007.
76. US7,279.704. Complexes with tridentate ligands; Walters; Robert (Export, PA), Tsai; Jui-Yi (Monroeville, PA), MacKenzie; Peter B. (Murrysville, PA), Thompson; Mark E. (Anaheim Hills, CA); Issued October 9, 2007.
77. US7,285.907. High efficiency multi-color electro-phosphorescent OLEDs; D'Andrade; Brian (Princeton, NJ), Thompson; Mark E. (Anaheim, CA), Forrest; Stephen R. (Princeton, NJ); Issued October 23, 2007.
78. US7,288,331. Organic light emitting devices having carrier transporting layers comprising metal complexes; Thompson; Mark E. (Anaheim, CA), Ren; Xiaofan (Los Angeles, CA), Djurovich; Peter (Long Beach, CA), Hong; Haiping (Los Angeles, CA), Forrest; Stephen R. (Princeton, NJ), Adachi; Chihaya (Princeton, NJ); Issued October 30, 2007.
79. US7,291,406. 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: November 6, 2007.

80. US 7,294,849. Materials and devices for blue phosphorescence based organic light emitting diodes; Thompson; Mark E. (Anaheim, CA), Forrest; Stephen (Ann Arbor, MI); Issued: November 13, 2007.
81. US 7,338,722. Phenyl and fluorenyl substituted phenyl-pyrazole complexes of Ir; Thompson; Mark E. (Anaheim, CA), Tamayo; Arnold (Glendale, CA), Djurovich; Peter (Los Angeles, CA); Issued March 4, 2008.
82. US 7,368,570. Organometallic complexes as singlet oxygen sensitizers; Thompson; Mark E. (Anaheim, CA), Djurovich; Peter I. (Long Beach, CA), Murphy; Drew (San Diego, CA), Selke; Matthias (South Pasadena, CA); Issued May 6, 2008.
83. US7,381,479. 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 3, 2008.
84. US 7,393,599. 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: July 1, 2008.
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. US7,474,048. 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.

### 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

4<sup>th</sup> 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  
2<sup>nd</sup> 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 10<sup>th</sup> International Workshop on Inorganic and Organic Electroluminescence;  
Hamamatsu; Japan  
Polymer Millennium 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; 1<sup>st</sup> 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

4<sup>th</sup> 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

5<sup>th</sup> 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

Pacificchem 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

6<sup>th</sup> 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

2<sup>nd</sup> International Conference on Plastic Electronics; Frankfurt, Germany

International Conference on Molecular Photonics: Interaction of Light with Nanostructured Materials; Harbor Island, WA

6<sup>th</sup> Brazilian MRS Meeting; Natal, Brazil

2008

Spring MRS Meeting; San Francisco,  
ACS Meeting; New Orleans, LA  
University of Calgary, Canada  
University of Alberta; Canada  
10<sup>th</sup> 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; Masstricht, Netherlands  
7<sup>th</sup> 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

18<sup>th</sup> 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 3<sup>rd</sup> International Symposium for Emergence of New Molecular Chemistry; Tokyo  
Institute of Technology; Tokyo, Japan  
PacifiChem Conference, Honolulu, HI

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:**

2005 – 2008, Chairman of the USC Chemistry Department

2005 – present, 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