



*R. Daniel Little*

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### **Education**

Wisconsin State University, Superior, highest honors in chemistry and mathematics; 1969; University of South Dakota, NSF-URP programs, 1967 & 1968; Argonne National Laboratory with K.E. Wilzbach & L.A. Kaplan, 1969; University of Wisconsin, Madison (Wisconsin Alumni Research Foundation Fellow), PhD, (Zimmerman) 1974; Yale University, postdoctoral fellow (Berson), 1974-75

### **Positions**

Distinguished Research Professor, 2014-present; Professor (1986-2014), Chair (1996-2000), Vice-Chair (1995-96) Department of Chemistry & Biochemistry, UCSB; Member of Administrative Faculty of the UCSB College of Creative Studies, 1994-96; Guest Professor, Zhejiang University of Technology, June 2014-2017; Visiting Professor, Universität Regensburg, Regensburg, Germany, May 2013; Visiting Professor, Beijing University of Technology, Beijing, China, May 2012; Visiting Professor University of British Columbia, Canada, Oct-Dec-1987

### **Professional memberships**

American Association for the Advancement of Science (AAAS, elected Fellow); International Society of Electrochemistry (ISE); Electrochemical Society (ECS); American Chemical Society (ACS); Phi Lambda Upsilon; Sigma Xi (past vice-president & president UCSB)

### **Honors, awards, special recognition (partial)**

Manuel M. Baizer Award, 2022 (ECS); Jaroslav Heyrovsky Prize for Molecular Electrochemistry, awarded by the International Society of Electrochemistry (ISE), 2015; Guest Professor, Zhejiang University of Technology, June 2014-2017; Elected Fellow of the American Association for the Advancement of Science (AAAS), 2012; Named to Chemistry Hall of Fame, University of Wisconsin, Superior, 2013; Visiting Professor, Universität Regensburg, Regensburg, Germany, May 2013; Visiting Professor, Beijing University of Technology, May 2012; Outstanding Faculty Member, Student Affiliates of the American Chemical Society, UCSB, 2004; Outstanding Alumnus, University of Wisconsin, Superior, 1994; Visiting Professor University of British Columbia, Oct-Dec-1987; Alfred P. Sloan Foundation Fellow, 1980-84; Harold J. Plous Award, UCSB, 1980; Wisconsin Alumni Research Foundation (WARF) Fellow, University of Wisconsin, 1970-1974; CSUI-ANL Honors Program in Chemistry, Argonne National Laboratory (1969)

### **Partial list of keynote and plenary lectures**

2020, Belgrade Serbia, Keynote Lecturer, 71<sup>st</sup> International Society of Electrochemistry (ISE), delivered two remote presentations, one to remember the late Professor Dennis Peters. 2019, The International Center for Advanced Studies of Energy Conversion, tutorial and research lectures, Summer School on Electrochemical Approaches to Chemical Synthesis, Göttingen; 2018 Paquette Legacy Symposium, Ohio State, 3 May 2018; Keynote lectures *Enhancing Reaction Efficiency – Simple Aspects of Marcus Theory*; *Introduction to Organic Electrochemistry*; *Mediated Redox Processes*; *The Zeng & Francke Mediators – Duality of Behaviors Coupled With Attempts to Improve Sustainability*, Chemical

Photocatalysis Graduate Colloquium (GRK 1626), Kloster Kostenz, Germany, June 2018; *Plenary lecture*, Zhejiang University of Technology, Hangzhou, China, October 12, 2015, “An introduction to electroorganic chemistry; a powerful, useful, versatile tool”; 2013 – *Featured lecturer*, Winter School in Electrochemistry, Kleinwalsertal, Austria (February 19 & 20), and in Germany, Ludwigshafen (BASF; February 22), Mainz (May 8), Münster (May 13), and Regensburg (visiting professor; May 16, 23, and 29); 2012 – in China (visiting professor): Beijing (May 9), Xiamen (May 22), Hangzhou (May 24), Dalian (September); *Plenary lecture* in Toluca, Mexico (June 11, 2012), XXVII Congreso de la Sociedad Mexicana de Electroquímica y el 5th Meeting of the Mexican Section of the Electrochemical Society; *Keynote lecture* in Prague, Czech Republic (August 2012), 63<sup>rd</sup> Annual meeting of the International Society of Electrochemistry; *Sustainable Energy Workshop*, “Electron Transfer From the Electrode Up”, IAMS, Academia Sinica, Taipei, Taiwan, December 15-16, 2011; *Plenary lecture*, 44th Meeting of the Mexican Chemical Society (Sociedad Química de México, SQM), Puebla, Mexico, 27 September 2009; *Keynote speaker*, “Rearrangements of Cation Radicals; application to total synthesis”, 59<sup>th</sup> Annual Meeting of the International Society of Electrochemistry, Seville, Spain, September 2008; *Keynote lecture*, 2<sup>nd</sup> International Symposium on Organic Electron Transfer Chemistry (ISOETC-2007), “Mediated, Electrocatalytic Rearrangements of Housane-derived Cation Radicals”, Yokohama, Japan, January 7-10, 2007; *Keynote lecturer*, 40<sup>th</sup> Heyrovsky Discussion on Electrochemistry of Molecules with Multiple Redox Centers, Castle Trest, Czech Republic, June 10-14, 2007; *Keynote lecture*, 12<sup>th</sup> Symposium on the Latest Trends in Organic Synthesis, “Redox Processes and the intermediates that reside there”, St. Catherines, Ontario, Canada – August 9-12, 2006; *Keynote address*, European Research Conferences, Organic Electrochemistry: Interdisciplinary Approaches to Contemporary Problems in the Environment, “Electrochemical Studies toward Natural Products, San Feliu de Guixols, Spain, 19 April, 2005; *Keynote lecture*, ISOFR 9<sup>th</sup> (the 9<sup>th</sup> International Symposium on Organic Free Radicals), Porto-Vecchio, France (Corsica), 11 June 2004; *Merck-Frosst Distinguished Lecturer* (16<sup>th</sup> annual), Merck-Frosst, Montreal Canada, 10/28/03; “Aspects of Electro- and TMM Diyl Chemistry” 2003; *Keynote speaker*, Festkolloquium anlässlich der Emeritierung von Prof. Dr. H. J. Schäfer, 5 July 2002, Westfälische Wilhelms-Universität Münster, Münster, Germany, “The non-Kekule hydrocarbon – trimethylenemethane”; *Keynote speaker*, Symposium on Electron Transfer in Inorganic and Organic Chemistry, Graduiertenkolleg Hochreaktive Mehrfachbindungssysteme, Westfälische Wilhelms-Universität Münster, Germany, November 15-16, seminar on 16 November 2000 entitled “Redox-Processes for the Synthesis of Natural Products”; *Keynote lecture*, Present and Future of Electroorganic Chemistry Directed For Organic Synthesis, Osaka, Japan, October 1, 1994; *Keynote Lecture*, 44th Meeting of the International Society of Electrochemistry, Berlin, September 5-10, 1993 (9/7); *Plenary speaker*, 6th International Symposium on Organic Free Radicals, Noordwijerhout, The Netherlands, 23-28 August, 1992 (8/26); *Gordon Research Conference*, Natural Products, July 1992; *Gordon Research Conference*, Organic Reactions and Processes (7/15/91-7/19/91); *Keynote speaker*, International Society of Electrochemistry (ISE) Pre-symposium: “The Frontier of Electrochemistry,” Sendai, Japan, September 15-16, 1989; *Keynote speaker*, The 40th Meeting of the International Society of Electrochemistry, Kyoto, Japan, September, 17-22, 1989; *Keynote Speaker*, Table Ronde Roussel-Uclaf N<sup>o</sup> 62, Institute Scientifique Roussel, “Free Radicals in Organic Synthesis,” Paris, France, June 29, 1988; *Keynote Speaker*, University of Wisconsin, Zimmerman Symposium on Physical Organic Chemistry, Madison, Wisconsin, October 10-11, 1986; *Gordon Research Conference* on Physical Electrochemistry, Colby-Sawyer College, New London, New

Hampshire, August 13, 1986; *Gordon Research Conference* on Free Radical Reactions, June 10-14, 1985

### Current major research interests

Major interests at the present time focus upon the fundamentals of electron transfer, particularly (a) redox mediated processes; (b) the design, synthesis and applications of new organic mediators; (c) the duality of mediators as electron transfer agents and their complementary behavior in electrochemically and photochemically initiated processes. Waste minimization via (d) electrochemistry carried out using simple, inexpensive, easy to construct flow cells and the evaluation of the advantages of flow vs batch cell processes, (e) covalent attachment of mediators to electrodes allowing reactions to be carried out under flow conditions and reuse of the mediator and improvements in mediator performance (e.g. turnover), (f) the design and use of recoverable and reusable supporting electrolyte surrogates.

### Service (partial list)

Co-editor with R. Francke and S. Inagi of January 2019 issue of *ChemElectroChem*; Co-editor with K. D. Moeller, special issue of *Chemical Reviews*, 118 (9), 4483-4886 (2018) – “Electrochemistry: Technology, Synthesis, Energy, and Materials”; Member of organizing committee for the 2017 Annual Meeting of the *ISE* in Providence, Rhode Island; *ACS Invitational Conference on Graduate Education in Chemistry*, September 22-24, 2013, Atlanta, Georgia; *ACS Graduate Profile Project Advisory Board*, 2013/14; Scientific Advisory Board, World Congress of Catalytic Asymmetric Synthesis-2010, Beijing; reviewer for numerous National Institutes of Health (NIH) study sections; Council of Chemical Research (CCR) "Research for Sustainable Growth of the Chemical Enterprise", Baltimore, MD, September 25-28, 1999; reviewer for numerous NSF review panels; International Scientific Advisory Committee – International Symposium of Electroorganic Synthesis, 1994 (Kurashiki, Japan); Organizer of International Symposium: "The Role of Electrochemistry in Organic Synthesis and Organometallic Chemistry" for the 183<sup>rd</sup> Meeting of the Electrochemical Society, co-sponsored by The Electrochemical Society of Japan with the cooperation of The Japan Society of Applied Physics, Honolulu, May 1993; Co-chairperson of *Manuel M. Baizer Memorial Symposium*, Electrochemical Society Meeting, Canada, May 1990; Co-chairperson *C.A. Bunton Symposium*, UCSB, May 26, 1990; Chairperson, *Gordon Research Conference* on Physical Electrochemistry, August 1986

- **Editorial service:** Member of the Editorial Board for *Molecules* (Electrochemistry); co-editor with R. Francke and S. Inagi of January 2019 issue of *ChemElectroChem*; co-editor with K. D. Moeller of May 2018 issue of *Chem. Rev.* dealing with electrochemistry; Associate editor – *Organic Chemistry International*; Member of the editorial board for *Letters in Organic Chemistry* and *Organic Chemistry: Current Research*; Member of the editorial board for *Advances in Organic Chemistry*.

### Mentoring & scholarship in the laboratory

In addition to classroom teaching, I've been privileged to mentor **144 students/scholars** in my research group during my tenure at UCSB. I've had the good fortune of mentoring **55 undergraduates** who gained their first research experience under my tutelage. Some began as a result of my involvement in the University of California Leadership Excellence through Advanced Degrees (UC-LEADS) and the California Alliance for Minority Participation (CAMP) programs, while others elected to do so

after being enrolled in one or more of my courses. Many of the undergraduates have gone on to pursue graduate studies in chemistry, several coauthored their first publication as a result of their experience in my group, others have gone on to careers in dentistry, medicine, and law, while others chose to serve our country in the military. **Fifty-five graduate students** have received an advanced degree (Masters', PhD). They have gone on to stellar positions in academics and industry (e.g., Washington University in St. Louis, University of the Pacific, Sacramento State, Northern Arizona University, City College of San Francisco, University of San Francisco, Santa Barbara City College, Sinclair Community College, Pfizer, Shell, Abbott, Procter & Gamble, Dow, DuPont, Monsanto, Roche, Rohm & Haas, Celgene, Genentech, Johnson & Johnson, Clorox, NREL, Novartis, Amgen, and Allergan). Others have established outstanding careers in patent law and medicine (general practice, psychiatry, dermatology). **Thirty-four postdoctoral or visiting scholars** have come from all parts of the world to study in my laboratory, including for example, the US, Russia, Germany, China, Mexico, Japan, Korea, Saudi Arabia, The Netherlands, Spain, India, Fiji, France, England, Switzerland, Sweden, Belgium, Guyana, and Brazil.

## Publications

	Title and Author(s)	Publisher
1. 1972	Contrasting Photochemistry of Cyclopentenone and Cyclohexenone, H. E. Zimmerman and R. D. Little	<i>J. Chem. Soc., Chem. Commun.</i> , 698
2. 1972	Evidence for Requirement of the Second $\pi$ -Bond in the Di- $\pi$ -Methane Rearrangement and Observation of Excited State 1,4-Phenyl Migration. Mechanistic and Exploratory Organic Photochemistry. LXXII, H. E. Zimmerman and R. D. Little	<i>J. Amer. Chem. Soc.</i> , <b>94</b> , 8256
3. 1974	Photochemical Rearrangement of 4-Aryl-Substituted Cyclopentenones. Low Temperature Photochemistry and Direct Observation of Reaction Intermediates, H. E. Zimmerman and R. D. Little	<i>J. Amer. Chem. Soc.</i> , <b>96</b> , 4623
4. 1974	A Novel Photochemical 1,4-Phenyl Migration. The Role of the Second $\pi$ -Bond in the Di- $\pi$ -methane Rearrangement. Mechanistic and Exploratory Organic Photochemistry, H. E. Zimmerman and R. D. Little	<i>J. Amer. Chem. Soc.</i> , <b>96</b> , 5143
5. 1976	The Influence of Substituents on the Molecular Orbital Energies and Ground Electronic State of Substituted Trimethylenemethanes, B. K. Carpenter, R. D. Little, J. A. Berson	<i>J. Amer. Chem. Soc.</i> , <b>98</b> , 5723
6. 1976	Triplet Ground States of Trimethylenemethanes, M. S. Platz, J. M. McBride, R. D. Little, J. J. Harrison, A. Shaw, S. E. Potter, J. A. Berson	<i>J. Amer. Chem. Soc.</i> , <b>98</b> , 5725
7. 1978	Frontier Orbital Control of Regiospecificity in Singlet Cycloadditions of 2-Methylenecyclopenta-1,3-Diyls, Roger Siemionko, Andrew Shaw, Genevieve O'Connell, R. D. Little, B. K. Carpenter, L. Shen and Jerome A. Berson	<i>Tetrahedron Lett.</i> , 3529
8. 1978	A New, Mild Method for the Synthesis of Azo Compounds, R. D. Little and M. G. Venegas	<i>J. Org. Chem.</i> , <b>43</b> , 2921
9. 1978	A Simple Synthesis of Sulfur Substituted Cyclopropanes. Effect of Solvent and Gegenion upon Mechanism and Product Composition, R. D. Little, J. R. Dawson	<i>J. Amer. Chem. Soc.</i> , <b>100</b> , 4607
10. 1978	Equivalent Expressions for the Description of Several Pericyclic Reactions, R. D. Little	<i>J. Chem. Ed.</i> , <b>55</b> , 792
11. 1979	A New Route to Linearly Fused Tricyclopentanoids. Diyl Trapping Reactions in Organic Synthesis, R. D. Little, A. Bukhari and M. G. Venegas	<i>Tetrahedron Lett.</i> , 305

12. 1979 Carbon-13 Chemical Shifts in Tricyclo[6.3.0.0.<sup>3,7</sup>]undecanes (Linearly Fused Tricyclopentanoids), M. G. Venegas and R. D. Little *Tetrahedron Lett.*, 309
13. 1979 Thermally Induced Extrusion of Sulfur Dioxide from Allyl Alkyl Sulfones. Use of the Rearrangement for the Synthesis of Dihydrojasmane, R. D. Little, S. Wolfe, T. Smestad, S. C. Seike, L. W. Linder, Jr., and L. Patton *Synthetic Communications*, **9**, 545
14. 1979 Electrochemical Generation of the Azo Linkage. Synthesis of Bicyclic Azo Compounds; Precursors of 1,3-Diyls, R. D. Little and G. L. Carroll *J. Org. Chem.*, **44**, 4720
15. 1979 A Regiospecific and Highly Stereoselective Approach to the Synthesis of Linearly Fused Tricyclopentanoids. Intramolecular Diyl Trapping Reactions, R. D. Little and G. W. Muller *J. Amer. Chem. Soc.*, **101**, 7129
16. 1980 Facile Construction of C<sub>10</sub> Modified Prostaglandin Precursors. Diyl Trapping Reactions Using Phenyl Vinyl Sulfoxide and Phenyl Vinyl Sulfone, R. D. Little and L. Brown *Tetrahedron Lett.*, **21**, 2203
17. 1980 MIRC (Michael Initiated Ring Closure) Reactions. Formation of Three, Five, Six- and Seven Membered Rings, R. D. Little and J. R. Dawson *Tetrahedron Lett.*, **21**, 2609
18. 1980 Oxidative Desulfonylation. Phenyl Vinyl Sulfone as a Ketene Synthetic Equivalent, R. D. Little and Sun Ok Myong *Tetrahedron Lett.*, **21**, 3339
19. 1981 Intramolecular Diyl Trapping. A Total Synthesis of *d,l*-Hirsutene, R. D. Little and G. W. Muller *J. Amer. Chem. Soc.*, **103**, 2744
20. 1981 1,3-Diyl Trapping Reactions. Fundamental Investigations with Application to the Synthesis of Linearly Fused Tricyclopentanoids, R. D. Little, G. W. Muller, M. G. Venegas, G. L. Carroll, A. Bukhari, L. Patton, K. Stone *Tetrahedron*, Symposia in Print, L. A. Paquette, Ed., **37**, 4371
21. 1981 Intramolecular 1,3-Diyl Trapping reactions: Total Synthesis of the Marine Natural Product (*d,l*)- $\square^9(12)$ -Capnellene, R. D. Little and G. L. Carroll *Tetrahedron Lett.*, **22**, 4389
22. 1982 MIRC Reactions. 3. Use of Doubly Activated Substrates, R. D. Little, Roland Verhe, W. T. Monte, Sean Nugent, James R. Dawson *J. Org. Chem.*, **47**, 362
23. 1982 Electroreductive Cyclization. A Comparison of the Electrochemical and Analogous Chemical (MIRC) Reaction, S. T. Nugent, Manuel M. Baizer, and R. D. Little *Tetrahedron Lett.*, **23**, 1339
24. 1983 Total Synthesis of the Marine Natural Product  $\Delta^9(12)$ Capnellene. Reversal of Regiochemistry in the *J. Amer. Chem. Soc.*, **105**, 928

- Intramolecular 1,3-Diyl Trapping Reaction, R. D. Little, G. L. Carroll, and J. L. Petersen
25. 1983 Electrogenated Superoxide-Initiated Autoxidation. A Convenient Electrochemical Method for the Conversion of Secondary Nitroalkanes to Ketones and the Use of Primary Nitroalkanes as Acyl Anion Equivalents in Michael Reactions, W. T. Monte, Manuel M. Baizer and R. D. Little *J. Org. Chem.*, **48**, 803
26. 1983 Preparation of Bis-2,2,2-Trichloroasodicarboxylate, R.D. Little and M.G. Venegas *Organic Syntheses*, **61**, 17
27. 1983 Electrochemical Peak Potentials of Typical Substrates Used for Coupling Reactions with Organocuprates. Effects of Solvent and Supporting Electrolyte, B. H. Lipshutz, R. S. Wilhelm, S. T. Nugent, R. D. Little, M. M. Baizer *J. Org. Chem.*, **48**, 3306
28. 1983 Consequences of Intramolecular Diyl Trapping Reactions Using Unactivated Diyllophiles. A Short, Convergent Synthesis of Hirsutene, R.D. Little, R.G. Higby and K.D. Moeller *J. Org. Chem.*, **48**, 3139
29. 1983 Some Unusual Reactions of Molecular Oxygen with Bicyclic Diazenes Which Typically Serve as Precursors to Alkylidenecyclopentane-1,3-Diyls. Peroxide Formation, R.D. Little, L. Losinski-Dang, M.G. Venegas and C. Merlic *Tetrahedron Letters*, **24**, 4499
30. 1983 Asymmetric Induction in the Intramolecular 1,3-Diyl Trapping Reaction. Chirality on the Linking Chain, R. D. Little and K. J. Stone *J. Amer. Chem. Soc.*, **105**, 6976
31. 1983 Electrogenated Bases. VI. Reaction of Electrogenated Superoxide with Some Carbon Acids. II, M. Sugawara, M.N. Baizer, W.T. Monte and R.D. Little *Acta Chem. Scand.*, B **37**, 509
32. 1983 Asymmetric Induction in Intramolecular 1,3-Diyl Trapping Reaction Through the Use of Methyl and 8-Phenylmethyl Esters, R.D. Little and K. D. Moeller *J. Org. Chem.*, **48**, 4487
33. 1984 Qualitative Valence Bond Theory and Firestone's Extended Diradical for 1,3-Dipolar Cycloadditions, R.D. Harcourt and R.D. Little *J. Amer. Chem. Soc.*, **106**, 41
34. 1984 An Exceptionally Simple and Efficient Method for the Preparation of a Wide Variety of Fulvenes, K. J. Stone and R. D. Little *J. Org. Chem.*, **49**, 1849
35. 1985 Asymmetric Induction in the Intramolecular 1,3-Diyl Trapping Reaction. Use of a Stereogenic Atom Located
- J. Amer. Chem. Soc.*, **107**, 2495-2505

- on the Chain Linking the Diyl and Diylophile, K. J. Stone and R. D. Little
36. 1985 Use of Heteroatom Containing  $\square$  Systems as Diylophiles in the Intermolecular 1,3-Diyl Trapping Reaction. Construction of Heterocycles, R.D. Little, Heinrich Bode, K. J. Stone, O. Wallquist and R. Dannecker *J. Org. Chem.*, **50**, 2400
37. 1985 Intramolecular 1,3-Diyl Trapping Reactions. Use of a Diylophile Directly Linked to the Diyl. Preparation of Bicyclic Furans, K. D. Moeller and R. D. Little *Tetrahedron Lett.*, **26**, 3417
38. 1985 Intramolecular Electroreductive Cyclization, D.P. Fox, R.D. Little and M.M. Baizer *J. Org. Chem.*, **50**, 2202
39. 1985 Thermally Initiated Reactions of Allyl sec-Butyl Sulfone. Observation of a [1,3]-Allylic Rearrangement, S.O. Myong, L.W. Linder, Jr., S.C. Seike and R.D. Little *J. Org. Chem.*, **50**, 2244
40. 1985 Evidence for Hydrogen atom Abstraction and Loss of Diylophile Stereochemistry in an Intramolecular 1,3-Diyl Trapping Reaction, Onorato Campopiano, R. D. Little, J. L. Petersen *J. Am. Chem. Soc.*, **107**, 3721
41. 1985 Intramolecular 1,3-Diyl Trapping Reactions. A Formal Total Synthesis of (*d,l*)-Coriolin, L. Van Hijfte and R. D. Little *J. Org. Chem.*, **50**, 3940
42. 1986 A Stereoselective Electroreductive Cyclization Pathway to the Isolactarane-type Sesquiterpene l-Sterpurene, L. Moëns, Manuel M. Baizer, and Little, R. D. *J. Org. Chem.*, **51**, 4497
43. 1986 The Intramolecular Diyl Trapping Reaction. A Useful Tool for Organic Synthesis, R. D. Little *Chem. Reviews*, **86**, 875
44. 1987 Intramolecular Reductive Coupling as a Step in the Synthesis of Certain Natural Products, R. D. Little, D. P. Fox, L. Moëns, R. Wolin, Manuel M. Baizer *Recent Advances in Electroorganic Synthesis*, S. Torii, Ed., Kodansha Ltd. (Elsevier), Tokyo, Japan, 171
45. 1987 Intramolecular 1,3-Diyl Trapping Reactions. Total Synthesis of (*d,l*)-Coriolin and (*d,l*)-Hypnophilin. Formation of Trans-fused Bicyclo(3.3.0)octane Ring Systems, L. Van Hijfte, R. D. Little, J. L. Petersen, and K. D. Moeller *J. Org. Chem.*, **52**, 4647-4661
46. 1988 Electroreductive Cyclization. Ketones and Aldehydes Tethered to  $\alpha,\beta$ -Unsaturated Esters (Nitriles). Fundamental Investigations, R. D. Little, D. P. Fox, L. Van Hijfte, Robert Dannecker, G. Sowell, R. L. Wolin, L. Moëns, and Manuel M. Baizer *J. Org. Chem.*, **53**, 2287



47. 1988 Preparation of 6-(Silyloxy)-6-alkylfulvenes. A Novel *in Situ* Trapping of an Enolate with *tert*-Butyldimethylsilyl Chloride, J. I. McLoughlin and R. D. Little *J. Org. Chem.*, **53**, 3624
48. 1988 Intramolecular Diyl Trapping Reactions. Arrhenius Activation Parameters for Extrusion of Nitrogen; Rate Acceleration When Diyl and Diylophile are Linked Directly to One Another, R. D. Little and C. F. Billera *Tetrahedron Letters*, **29**, 5711
49. 1989 Enone Electrochemistry, R. D. Little and Manuel M. Baizer *The Chemistry of Enones*, S. Patai and Z. Rappoport, Eds., John Wiley & Sons: New York; Chapter 14
50. 1990 Electroreductive Cyclization Reactions. Stereoselection, Creation of Quaternary Centers in Bicyclic Frameworks, and a Formal Total Synthesis of Quadrone, C.G. Sowell R.L. Wolin, and R.D. Little *Tetrahedron Letters*, **31**, 485
51. 1990 Direct Observation of Intermediate Involved in the Intramolecular Diyl Trapping Reaction, M.R. Masjedizadeh, C. Fite, R. D. Little *Tetrahedron Letters*, **31**, 1229
52. 1990 Stereoselectivity in Intramolecular Diyl Trapping Reactions. Model Studies Directed Toward the Phorbols, J. I. McLoughlin, R. Brahma, O. Campopiano, R. D. Little *Tetrahedron Letters*, **31**, 1377
53. 1990 Linearly Fused vs Bridged Regioselection in the Intramolecular 1,3-Diyl Trapping Reaction, M. R. Masjedizadeh, I. Dannecker-Doerig, R. D. Little *J. Org. Chem.*, **55**, 2742-2752
54. 1990 Electrolyte-Assisted Stereoselection and Control of Cyclization vs Saturation in Electroreductive Cyclizations, H. E. Bode, C. G. Sowell, and R. D. Little *Tetrahedron Letters*, **31**, 2525
55. 1991 Electroreductive Cyclization Reactions: Attempts to Use 2(5H)Furanones ( $\alpha,\beta$ -Unsaturated Butenolides). Dominance of Acid-Base Over Cyclization Chemistry, M.A. Amputch and R.D. Little *Tetrahedron*, **47**, 383
56. 1991 *Electroorganic Synthesis - Festschrift in Honor of Manuel M. Baizer*, Little, R.D. & Weinberg, N.L., Eds. Marcel Dekker: New York
57. 1991 Stereoselective Electroreductive Cyclization. Construction of a Corey Lactone Precursor. R.D. Little and C.G. Sowell *Festschrift in Honor of Manuel Baizer*, Little, R.D. & Weinberg, N.L., Eds.; Marcel Dekker: New York
58. 1991 [3+2] Cycloadditions-Thermal, R.D. Little *Comprehensive Organic Chemistry*, B. M. Trost &

- L.A. Paquette, Eds.;  
Pergamon: Oxford
59. 1992 Factors Affecting Regioselectivity in the Intramolecular Diyl Trapping Reaction, R.D. Little, M.R. Masjedizadeh, K.D. Moeller, and I. Dannecker-Doerig *Synlett* (an "Account"), 107-113
60. 1992 Expression of Dipolar Character in Diyl Trapping Chemistry, R.D. Little, L.M. Brown, and M.R. Masjedizadeh *J. Am. Chem. Soc.*, **114**, 3071-3075
61. 1992 Strategies and Tactics in Organic Synthesis. Volume 3, R. D. Little Thomas Lindberg, Ed. Academic Press: San Diego. 1991. xx + 544 pp. *J. Am. Chem. Soc.*, **114**, 7610-7611
62. 1993 [3 + 2] and [4 + 2] Cycloadditions of C<sub>60</sub>, M. Prato, T. Suzuki, H. Foroudian, Q. Li, K. Khemani, F. Wudl, J. Leonetti, R.D. Little, T. White, B. Rickborn, S. Yamago, E. Nakamura *J. Am. Chem. Soc.*, **115**, 1594-1595
63. 1994 A New Class of DNA-Cleaving Agents Based on Trimethylenemethane, T.M. Bregant, J. Groppe, R.D. Little *J. Am. Chem. Soc.*, **116**, 3635-3636
64. 1994 Intramolecular Diyl Trapping: Diyl-Decoupling and 7-Endo-trig Cyclization, C.F. Billera, C. Phillipp, and R.D. Little *J. Org. Chem.*, **59**, 2270-2272
65. 1994 Asymmetric Induction in the Michael Initiated Ring Closure Reaction, M.A. Amputch, R. Matamoros, R.D. Little *Tetrahedron*, **50**, 5591-5614
66. 1994 Hydrogen Atom Transfer Reactions from Trimethylenemethane Diyls. A New Reactivity Pattern Leading to Bicyclic Ring Systems, C. Billera and R. D. Little *J. Am. Chem. Soc.*, **116**, 5487-5488
67. 1994 A General Mechanistic Scheme for Intramolecular Electrochemical Hydrocyclizations. Mechanism of the Electroreductive Cyclization of  $\omega$ -Keto- $\alpha,\beta$ -Unsaturated Esters, A.J. Fry, R.D. Little, J. Leonetti *J. Org. Chem.*, **59**, 5017-5026
68. 1994 Bis(2,2,2-trichloroethyl) Azodicarboxylate, R.D. Little and T.M. Bregant *Encyclopedia of Reagents for Organic Synthesis*, Wiley: New York
69. 1994 An Electroreductive Cyclization Approach to the Bicyclo[3.2.1] Framework, R. D. Little, R. Wolin, G. Sowell *Denki Kagaku*, **62**, 1105

70. 1995 The Intramolecular Michael Reaction, R.D. Little, M.R. Masjedizadeh, O. Wallquist, J.I. McLoughlin *Organic Reactions*, Wiley: New York; Vol. 47, Chapter 2; pp. 315-552
71. 1995 The Binding Modes of a Rationally Designed Photoactivated DNA Nuclease by NMR, H. P. Spielmann, P. A. Fagan, T. M. Bregant, R. D. Little, D. E. Wemmer *Nucleic Acids Research*, **23**, 1576-1583
72. 1995 Electroreductive Coupling and Cyclization Reactions, R. D. Little, H. Bode, T. Bregant, M. Schwaebe *Novel Trends in Electroorganic Synthesis*, Torii, S., Ed.; Kodansha: Tokyo; pp. 299-302
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Rudman, Benjamin H. R. Gerroll, Mohammad S. Mubarak, Lane A. Baker, and R. Daniel Little

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### Patents & disclosures

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### Conference chairperson

- Division of Organic Chemistry, Section B, 175th ACS National Meeting, Anaheim, California, March 13-17, 1978.
- Division of Organic Chemistry, Section F, General Synthesis, American Chemical Society/Chemical Society of Japan (ACS/CSJ) Chemical Congress, Honolulu, Hawaii, April 1-6, 1979.
- Bio-organic Section of the Second Chemical Congress of the North American Continent, Las Vegas, Nevada, August, 1980.
- *Gordon Research Conference on Physical Electrochemistry*, Organic Electrochemistry, August 13, 1986.

- 192<sup>nd</sup> American Chemical Society Meeting, Symposium on Advances in Free Radical Chemistry, Anaheim, CA, September 10, 1986
- The 40<sup>th</sup> Meeting of the International Society of Electrochemistry, Kyoto, Japan, September 17-22, 1989.
- Manuel M. Baizer Memorial Symposium, Co-chairperson (with J.H.P. Utley, N. Weinberg and H. Chum) for the Electrochemical Society Meeting, Montreal, Canada, May 1990.
- Co-chairperson C.A. Bunton Symposium, UCSB, May 26, 1990.
- Organizer, International Symposium: "The Role of Electrochemistry in Organic Synthesis and Organometallic Chemistry" for the 183 Meeting of the Electrochemical Society, cosponsored by The Electrochemical Society of Japan with the cooperation of The Japan Society of Applied Physics, Honolulu, HI, May 16-23, 1993.
- 44<sup>th</sup> Meeting of the International Society of Electrochemistry, Berlin, September 5-10, 1993 (9/9)
- The 3<sup>rd</sup> International Symposium on Electroorganic Synthesis, Kurashiki, Japan, September 25, 1997.
- 199<sup>th</sup> Meeting of the Electrochemical Society, Washington, D.C., 25-29 March 2001
- Co-organizer of the 68<sup>th</sup> meeting of the International Society of Electrochemistry (ISE), Providence, Rhode Island, 2017

### Seminars, keynote, plenary lectures

- 1972-73**
- Presented paper, "Excited State Phenyl 1,4-Migration; Long Range Di- $\sigma$ -Rearrangements," H.E. Zimmerman and Little, R. D. Paper No. 96, 164<sup>th</sup> National American Chemical Society Meeting, New York, August, 1972.
  - University of Wisconsin, Madison, WI.
- 1974-75**
- Yale University, New Haven, CT
  - Iowa State University, Ames, Iowa
  - Purdue University, West Lafayette, IN.
  - Vanderbilt, Nashville, TN
  - USC, Los Angeles, CA
  - UCSB, Santa Barbara, CA
- 1975-76**
- Presented paper, Southern California Division of SynCom (Synthetic Communication), April, 1976.
- 1977-78**
- "Conference on the Spin States of Organic Molecules," Boulder Colorado, June 21-24, 1978.
  - "XVII Conference on Reaction Mechanisms," Duluth, Minnesota, June 26-29, 1978.
  - Presented Chemistry Department Faculty Seminar, UCSB, "From Sulfones to Sulfides to Diyls."
- 1978-79**
- California State University, San Francisco, Sept. 22, 1978.
  - California State University, Chico, November 16, 1978.

- "The Mechanism for the Thermal Rearrangement of Allyl Sec-Butyl Sulfone; Temperature Dependence and Mechanistic Switch," R.D. Little, L.W. Linder, Jr., S. Seike, and S. Myong, 34th ACS Southwest Regional Meeting, Corpus Christi, Texas, November 29 - December 1, 1978.
  - Southern California Division of SynCom (Synthetic Communication) March, 1979.
  - "A New Route to Linearly Fused Tricyclopentanoids. Diyl Trapping Reactions in Organic Synthesis," R. Daniel Little, Manuel G. Venegas, and Ahmed Bukhari, Paper No. 331, ACS/CSJ Chemical Congress, Honolulu, Hawaii, April 1-6, 1979.
  - California State University, Long Beach, April 25, 1979.
- 1979-80**
- "Intramolecular Diyl Trapping Reactions in Organic Synthesis. An Approach to the Total Synthesis of ( $\pm$ )-Hirsutene and the Coriolins," R.D. Little and G.W. Muller, Pacific Conference on Chemistry and Spectroscopy, Symposium on Natural Products Synthesis, Pasadena, California, 1979.
  - "The MIRC (Michael Initiated Ring Closure) Reactions," R.D. Little, and J.R. Dawson, Pacific Conference on Chemistry and Spectroscopy, Symposium on Synthetic Methods in Organic Chemistry, Pasadena, California, 1979.
  - University of California, Riverside, October 2, 1979.
  - University of California, Santa Cruz.
  - Northern Arizona University, Flagstaff.
  - "Intramolecular Diyl Trapping Reactions," Third I.U.P.A.C. Symposium on Organic Synthesis, Madison, Wisconsin, June 15-20, 1980.
- 1980-81**
- "A Reaction of Bicyclic Azo Compounds with Molecular Oxygen. Diyl Trapping Reactions in Organic Synthesis," L.L. Dang, M.G. Venegas, R.D. Little, Second Chemical Congress of the North American Continent, Las Vegas, Nevada, August, 1980.
  - "Oxidative Desulfonylation using MoOPH. Phenyl Vinyl Sulfone as a Ketene Synthetic Equivalent," R.D. Little, S.O. Myong, Second Chemical Congress of the North American Continent, Las Vegas, Nevada, August, 1980.
  - UCLA, Fall, 1980.
  - California State University, Los Angeles, (CSULA), Spring, 1981.
  - State University of Ghent, Ghent, Belgium, June, 1981.
  - *Third European Symposium on Organic Chemistry*, Stressa Italy, June 1981.
- 1981-82**
- NSF Workshop on Organic Synthesis and Natural Products, Pingree Park, CO, July 1981.
  - Presented *Plous Award Address*, UCSB, October 29, 1981.
  - University of California, San Diego, September, 28, 1981.
  - University of California, Irvine, October 26, 1981.
  - Natural Products Synthesis Symposium, Pacific Conference on Chemistry and Spectroscopy, "Intramolecular Diyl Trapping Reactions in Natural Products Synthesis," Anaheim, CA, October, 1981.
  - "New Reagents in Organic Synthesis, Ring Forming Reactions Using MIRC and EMIRC," with S. Nugent, Pacific Conference on Chemistry and Spectroscopy, October 20, 1981.
  - University of California, Berkeley, April 21, 1982.

- 1982-83**
- "Electrochemically Generated Superoxide-Initiated Autooxidation of Nitro Groups to Carbonyls", with W. T. Monte, Pacific Conference on Chemistry and Spectroscopy, October 27-29, 1982.
  - "Asymmetric Induction in Intramolecular Diyl Trapping Reactions", with K. D. Moeller, San Francisco.
  - Department of Chemistry and Molecular Sciences, University of Warwick, Coventry, England, January 17, 1983
  - Department of Chemistry, University of Nottingham, Nottingham, England, January 19, 1983.
  - Department of Chemistry, University of York, York, England, January 21, 1983.
  - Chimie Bio-Organique, Universite Libre de Bruxelles, Brussels, Belgium, February 1983.
  - *Max Planck Institute* für Kohlenforschung und Strahlenforschung, Mülheim, A. D. Ruhr, West Germany, February 3, 1983.
  - Lehrstuhl für Organische Chemie, Universität Freiburg, Freiburg, West Germany, February 9, 1983
  - Department of Chemistry, University of Utah, Salt Lake City, Utah, May 5, 1983.
  - "Ring Forming Reactions using Electrochemical and Nonelectrochemical Methods. II. Electrochemical Conversion of Secondary Nitroalkanes to Ketones", Symposium on Structure and Reactivity in Organic Chemistry and Electrochemistry, Electrochemical Society Meeting, San Francisco, May 11, 1983.
- 1983-84**
- Department of Chemistry, UCLA, February 9, 1984
  - "Asymmetric Induction in the Intramolecular 1,3-Diyl Trapping Reaction: Chirality Built into the Connecting Chain", Symposium on Organic Synthesis, 1983 Pacific Conference on Chemistry and Spectroscopy, October 26, 1983.
  - "Intramolecular Electroreductive Cyclization", 35th Meeting of the International Society of Electrochemistry, Berkeley, August 7, 1984.
- 1984-85**
- 35th Meeting of the International Society of Electrochemistry, Berkeley, CA, August 7, 1984
  - Symposium on Organic Synthesis, Pacific Conference on Chemistry and Spectroscopy, October 26, 1984
  - Symposium on Organic Electrochemistry, PAC Chemistry 1984 Conference, Honolulu, Hawaii, December, 1984
  - National American Chemical Society Meeting Miami, Florida, May 1, 1985:  
"6-Versus 4-Exo Trig Closure, Evidence for Hydrogen atom Abstraction in an Intramolecular 1,3-Diyl Trapping Reaction", with O. Campopiano, and  
"An Electronic Variant of the Intramolecular 1,3-Diyl Trapping Reaction; Use of a Zero-Carbon Tether", with K. Moeller, May 1, 1985.
- Keynote speaker, Gordon Research Conference on Free Radical Reactions, June 10-14, 1985.*
- 1985-86**
- Chemistry Department Colloquium, Santa Barbara, October 4, 1985
  - University of Alberta, Edmonton, Alberta, Canada, March 23-25, 1986.
  - University of British Columbia, Vancouver, British Columbia, Canada, March 25-26, 1986.



- Massachusetts Institute of Technology, May 8, 1986
  - Symposium on Organic Reaction Mechanisms, Electrochemical Society Meeting, Boston Massachusetts, May 4-9, 1986.
- 1986-87**
- *Keynote speaker, Gordon Research Conference on Physical Electrochemistry*, Colby-Sawyer College, New London, New Hampshire, August 13, 1986.
  - *Keynote Speaker, University of Wisconsin, Zimmerman Symposium on Physical Organic Chemistry*, Madison, Wisconsin, October 10-11, 1986.
- 1987-88**
- Chemistry Department Colloquium, UC Riverside, February 18, '87
  - Syncon Meeting, UC Riverside, May 1987.
  - 193rd ACS National Meeting, April 5-10, Denver, Colorado, "Electroreductive Cyclization: An Approach to Quadron," with Ronald L. Wolin, April 9, 1987, Paper 134.
  - *Award Seminar and Dinner for My Student (Luc Moëns)*, winner of one of the 1987 Graduate Student Awards presented by the Southern California Nevada Section of the Electrochemical Society, California Institute of Technology, June 9, 1987.
  - Pacific Conference on Chemistry and Spectroscopy of the ACS, Irvine, CA, October 1987, "The Preparation of 6-Silyoxyfulvenes. A Novel *in situ* Trapping of an Enolate with *tert*-Butyldimethylsilyl Chloride, with Jim I. McLoughlin.
  - Meeting of the Electrochemical Society, Honolulu, Hawaii, October 1987.
  - University of British Columbia, Vancouver, British Columbia, Canada
  - Florida State University, Tallahassee, Florida, December 3, 1987.
  - UCLA, February 18, 1988.
  - University of Minnesota, April 13, 1988.
  - 3-M, St. Paul, Minnesota, April 14, 1988.
  - *Keynote Speaker, Table Ronde Roussel-Uclaf N<sup>o</sup> 62, Institute Scientifique Roussel, "Free Radicals in Organic Synthesis,"* Paris, France, June 29, 1988.
- 1988-89**
- Technische Hochschule, Darmstadt, Germany, September 18, 1988.
  - Merrell Dow Research Institute, Strasbourg, France, September 23, 1988.
  - UC-Davis, Davis, CA, April 13, 1989.
  - *Stanley Wazonek Symposium*, Electrochemical Society Meeting, Los Angeles, CA, May 1989.
  - SYNCON Meeting, UCLA, May 27, 1989.
  - Free Radical Symposium, 44th Northwest Regional Meeting of the American Chemical Society, Reno-Sparks, Nevada, June 14-16, 1989.
  - 31st National Organic Chemistry Symposium of the American Chemical Society, Cornell University, Ithaca, New York, with M. R. Masjedizadeh (*poster session*), June 1988.
- 1989-90**
- The 40th Meeting of the International Society of Electrochemistry, Kyoto, Japan, September 17-22, 1989.
  - International Society of Electrochemistry (ISE) Pre-symposium: "The Frontier of Electrochemistry," Sendai, Japan, September 15-16, 1989.
  - National Meeting of the American Chemical Society, Miami, Florida, September 1989, with C.G. Sowell

- National Meeting of the American Chemical Society, Miami, Florida, September 1989 with H.E. Bode.
  - University of Southern California, March 14, 1990.
- 1990-91**
- Eastman Kodak (9/14/90)
  - Santa Clara University (11/12/90)
  - San Jose State University (11/13/90)
  - Cal State Northridge (5/1/91)
  - University of California at San Diego (5/20/91)
  - *Poster session* with Dr. Michael Futscher and Ms. Lynn Brown, University-wide AIDS Conference, San Francisco, April 1991.
- 1991-92**
- *Keynote* Lecture, *Gordon Research Conference*, Organic Reactions and Processes (7/15/91-7/19/91)
  - National ACS Meeting, *poster session* with Lynn Brown, New York, NY 8/28/91. (Conference: week of August 25).
  - University-wide AIDS Conference, *Poster session*, San Francisco, March 12-13, 1992.
- 1992-93**
- *Gordon Research Conference*, Natural Products, July 1992
  - *Plenary* speaker, 6th International Symposium on Organic Free Radicals, Noordwijerhout, The Netherlands, 23-28 August, 1992 (8/26)
  - Bristol-Myers Squibb, New Brunswick, New Jersey, April 1993
  - 205th American Chemical Society National Meeting, Denver, CO, paper 103, with Charles F. Billera, March 28-April 2, 1993 (3/29)
  - National Organic Symposium, Bozeman, Montana, *poster session* with Lynn Brown
- 1993-94**
- *Gordon Research Conference*, Free Radical Reactions, poster session with Charles F. Billera, July 1993
  - 206th American Chemical Society National Meeting, Chicago, IL, paper 414, with Therese M. Bregant, August 22-27, 1993 (8/27)
  - *Keynote Lecture*, 44th Meeting of the International Society of Electrochemistry, Berlin, September 5-10, 1993 (9/7)
  - University of Wisconsin, Madison, October 1993
  - Colloquium on Biomedical Research, UCSB, 2/9/94
  - 207th American Chemical Society National Meeting, San Diego, CA, paper 52, with Joseph Leonetti, March 1994 (3/13)
- 1994-95**
- 208th American Chemical Society National Meeting, Washington, D.C., paper 18, with Scott Meehan, August 1994 (8/21)
  - Symposium on Novel Aspects of Electrogenenerated Active Species and Their Reactions (Pre-symposium of IS-EOS'94), with W. Russu and M. Schwaebe, Okayama, Japan, 24-25 September 1994 (9/25)
  - IS-EOS '94, Aspects of Nitroalkene & Vinyl Sulfone Electrochemistry, Kurashiki, Japan, with W. Russu and M. Schwaebe, 29 September, 1994.

- *Keynote* speaker, 2nd International Symposium on Electroorganic Synthesis (IS-EOS'94), Electroreductive Coupling and Cyclization Reactions, with T. M. Bregant, G. Carroll, M. Schwaebe, Kurashiki, Japan, 27-30 September 1994 (9/27)
  - *Keynote* lecture, Present and Future of Electroorganic Chemistry Directed For Organic Synthesis, Osaka, Japan, October 1, 1994
  - *Keynote* lecture, 68th Annual Meeting of the Chemical Society of Japan, Aspects of Diyl Trapping Chemistry, with T. M. Bregant, C. F. Billera, J. Dickhaut, M. Ott, Nagoya, Japan, October 1-4, 1994 (10/3)
  - *Keynote* address, European Research Conferences, Organic Electrochemistry: Interdisciplinary Approaches to Contemporary Problems in the Environment, "Electrochemical Studies toward Natural Products, San Feliu de Guixols, Spain, 19 April, 1995.
- 1996-97**
- UC-Riverside, November 20, 1996, "Diyl Trapping Chemistry",
  - The Clorox Technical Center Seminar Program, Aspects of Diradical and Radical Anion Chemistry, July 16, 1997.
- 1997-98**
- The 3rd International Symposium on Electroorganic Synthesis, Kurashiki, Japan, September 25, 1997, "Electroreductive Cyclization Reactions. Studies Directed Toward the Phorbol Esters and Bioactive Diterpenes" (with J. I. Lozano and G. L. Carroll).
  - 213th National American Chemical Society Meeting (April 13-17, 1997), San Francisco, CA, Novel Use of an Intramolecular Atom Transfer Reaction of a Trimethylenemethane (TMM) Diyl in the Total Synthesis of Confertin, Amy Allan, M. K. Schwaebe, R. D. Little, April 14, 1997.
  - 213th National American Chemical Society Meeting (April 13-17, 1997), San Francisco, CA, A Novel Route into the [6.3.0] Ring System via Radical Initiated Vinylcyclopropyl Ring Opening, Georgia L. Carroll, R. D. Little, April 17, 1997.
  - *Poster session*, Z. Tesfai, R. D. Little, M.M. Ott, A. Matzeit, J. Dickhaut, 213th National American Chemical Society Meeting (April 13-17, 1997), San Francisco, CA, The Diyl Trapping Reaction: A Viable Route Toward the Synthesis of Aphidicolin, April 16, 1997.
  - 216th National American Chemical Society Meeting (August 23-27, 1998), Boston, MA, Assembly of the fused tricyclo[8.3.0.0] ring system via intramolecular diyl trapping of a diene followed by [3,3] sigmatropic rearrangement: Progress toward the phorboids, Wade Russu and R. D. Little, August 27, 1998.
  - 216th National American Chemical Society Meeting (August 23-27, 1998), Boston, MA, Trimethylenemethane-induced vinylcyclopropyl ring opening as a route to taxoids, Peter Mikesell and R. D. Little, August 27, 1998.
- 1998-99**
- UCLA Organic Colloquium, March 19, 1998, "Adventures in Diradical and Electrochemistry."
  - Washington University, St. Louis, September 24, 1998.
  - *Gordon Research Conference on Free Radical Reactions, Poster session*, Georgia Carroll and R. D. Little, July 11-16, 1999, Plymouth, New Hampshire.
  - "Recent Adventures in Diradical Chemistry," April 5, 1999, UC-Santa Cruz
  - E. Piers Symposium, U. British Columbia, January 30, 1999.

- *Plenary* speaker, 21st Sandbjerg Meeting on Organic Electrochemistry, June 18-21, 1999, Sandbjerg, Denmark.
- Biotechnology Leadership Summit, Cottage Hospital, Santa Barbara, CA, October 20, 1999.

**2000**

Electrochemical generation of low-valent lanthanides. Parrish, Jonathan D.; Little, R. Daniel. 220th meeting of the American Chemical Society, Washington, D.C., August 2000, Abstract ORGN-019.

Effect of cerium(IV) additives on the stereoselectivity of electrochemical pinacol cyclizations. Parrish, Jonathan D.; Little, R. Daniel. 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000 (2000), ORGN-858.

Symposium on Electron Transfer in Inorganic and Organic Chemistry, Graduiertenkolleg Hochreaktive Mehrfachbindungssysteme, Westfälische Wilhelms-Universität Münster, Germany, November 15-16, seminar on 16 November 2000 entitled "Redox-Processes for the Synthesis of Natural Products"

**2001-2002**

Reactive Intermediates in Organic and Biological Electrochemistry - in Honor of the late Professor Eberhard Steckhan, Organic and Biological Division of the Electrochemical Society, at the 199<sup>th</sup> Meeting of the Electrochemical Society, 25-29 March 2001, Washington, D.C., seminar on 27 March 2001 entitled "Direct and Indirect Electrochemical Reduction of Glycosyl Halides in THF" with J.D. Parrish.

22<sup>nd</sup> Sandbjerg Meeting on Organic Electrochemistry, Reduction of Glycosyl Halides in THF, Parrish, J.D.; Little, R.D. presented by Jon Parrish at the, Sandbjerg, Denmark, June 2001.

*Festkolloquium* anlässlich der Emeritierung von Prof. Dr. H. J. Schäfer, 5 July 2002, Westfälische Wilhelms-Universität Münster, Münster, Germany, seminar entitled "The non-Kekule hydrocarbon – trimethylenemethane"

16<sup>th</sup> IUPAC Conference on Physical-Organic Chemistry – Structure and Mechanism in Organic Chemistry, UC San Diego, 4-9 August 2002, Gerken, J.B. and Little, R. D. presentation entitled "Substituent-Controlled Rearrangements of Housane-Derived Cation Radicals"

Substituent-controlled migration in cation radical rearrangements of housanes. Little, R. Daniel; Gerken, James B. Abstracts of Papers, 224th ACS National Meeting, Boston, MA, August 18-22, 2002 (seminar on 19 August, 2002), ORGN-277.

Application of the intramolecular diyl trapping reaction to the convergent synthesis of aphidicolin, Villalon, V.; Little, R.D. Symposium entitled Total synthesis of Complex Molecules, 224th ACS National Meeting, Boston, MA, August 18-22, 2002 (seminar on 21 August, 2002), ORGN-632.

Electrochemistry in Molecular and Microscopic Dimensions, 53<sup>rd</sup> Annual Meeting of the International Society of Electrochemistry (ISE), Düsseldorf, Germany, 15-20 September 2002; talk on 19 September, entitled "Applications of electrochemistry to Problems in Organic Synthesis"

The 10<sup>th</sup> Symposium on the Latest Trends in Organic Synthesis, presented by Synthetic Pathways, October 23-26, 2002, Gainesville, Florida, seminar on 10/26/02 entitled "Aspects of diradical, cation radical, and anion radical chemistry"

#### 2003-2004

Seminar, California State University at Fullerton, October 14, 2004

ISOFR 9<sup>th</sup> (the 9<sup>th</sup> *International Symposium on Organic Free Radicals*), Porto-Vecchio, France (Corsica), 11 June 2004.

6<sup>th</sup> *International M. Baizer Award Symposium* on Organic Electrochemistry, San Antonio, Texas, 10 May 2004

*Merck-Frosst Distinguished Lecturer* (16<sup>th</sup> annual)

Merck-Frosst, Montreal Canada, 10/28/03; "Aspects of Electro- and TMM Diyl Chemistry"

University of Sherbrooke, Sherbrooke, Quebec, Canada, 10/29/03

Symposium on Organic Electrochemistry, ACS National Meeting, New York, NY, September 2003; Electrochemistry applied to organic chemistry. Little, R. D. Abstracts of Papers, 226th ACS National Meeting, New York, NY, September 7-11, 2003 (2003), ORGN-480.

Titanocene(III) and electrochemically promoted Reformatsky reactions. Parrish, J. D.; Shelton, D. R.; Park, Y. S.; Little, R. D. *Proceedings - Electrochemical Society* (2003), 2003-12(Mechanistic and Synthetic Aspects of Organic and Biological Electrochemistry), 161-164.

Progress toward the total synthesis of thyriferyl 23-acetate. Nishiguchi, Gisele A.; Little, R. D. Abstracts of Papers, 226th ACS National Meeting, New York, NY, September 7-11, 2003 (2003), ORGN-192.

Intramolecular electroreductive cyclization and its application toward the total synthesis of pentalenolactone E. Shelton, D. R.; Little, R. D. Abstracts of Papers, 226th ACS National Meeting, New York, NY, September 7-11, 2003 (2003), CHED-196

#### 2004-2005

Alkylidene carbenes and diyl trapping. Thomas, D. J.; Little, R. D. Abstracts of Papers, 228th ACS

National Meeting, Philadelphia, PA, United States, August 22-26, 2004 (2004), ORGN-648.

"Mini-Symposium on Biotechnology & Medicinal Chemistry", UCSB; 14 February 2005

Indirect intramolecular electroreductive cyclization using catalytic Ni (I) salen. Miranda, J. A.; Wade, Carolyn J.; Little, R. D. Abstracts of Papers, 229th ACS National Meeting, San Diego, CA, United States, March 13-17, 2005, ORGN-530.

Cycloaddition vs atom transfer-cyclization: Chemistry of TMM diradicals. Maiti, A.; Gerken, J. B.; Little, R. D. Abstracts of Papers, 229th ACS National Meeting, San Diego, CA, United States, March 13-17, 2005, ORGN-622.

Application of a titanium (III)-mediated coupling reaction to the synthesis of thyriferol and related compounds. Nishiguchi, Gisele A.; Little, R. D. Abstracts of Papers, 229th ACS National Meeting, San Diego, CA, United States, March 13-17, 2005, ORGN-422.

#### 2005-2006

Having Fun With Reactive Intermediates, R. D. Little, Duquesne University, September 9, 2005.

Pfizer/CBIA SURF Symposium / Poster Session, Groton, CT on Sept. 29-30, 2005.

Having Fun With Reactive Intermediates, R. D. Little, UC-Davis, November 10, 2005

Pacific Rim Summit on Industrial Biotechnology and Bioenergy, Honolulu, HI – January 11-13, 2006.

“Selective, Catalytic, Electrochemically Mediated Rearrangements of Housanes Cation Radicals”, at the 209<sup>th</sup> Meeting of the Electrochemical Society in the Symposium “Mechanistic Organic Electrochemistry Symposium in Honor of the 80<sup>th</sup> Birthday of Professor Petr Zuman, Denver, CO – May 7-12, 2006.

“Recent Advances in Organic Synthesis”, invited speaker at the 89<sup>th</sup> Canadian Society for Chemistry Conference and Exhibition, Halifax, Nova Scotia, Canada, May 27-31, 2006.

12<sup>th</sup> Symposium on the Latest Trends in Organic Synthesis, “Redox Processes and the intermediates that reside there”, St. Catherines, Ontario, Canada – August 9-12, 2006

#### 2007-2008

2<sup>nd</sup> International Symposium on Organic Electron Transfer Chemistry (ISOETC-2007), invited lecture, “Mediated, Electrocatalytic Rearrangements of Housane-derived Cation Radicals”, Yokohama, Japan, January 7-10 (January 8 seminar), 2007

“Mediated, Electrocatalytic Rearrangements of Housane-derived Cation Radicals”, Shizuoka

University, Hamamatsu, Japan, January 11, 2007

40<sup>th</sup> Heyrovsky Discussion on Electrochemistry of Molecules with Multiple Redox Centers, Castle Trest, Czech Republic, June 10-14, 2007

Prince Edward Island BioAlliance Meeting, Charlottetown, Prince Edward Island, Canada, September 12, 2007

“Stereochemical control in electroreductive cyclization and electrohydrodimerization reactions using chiral auxiliaries and Lewis acid complexes,” with Jennifer A. Mallory, Abstracts of Papers, 234<sup>th</sup> ACS National Meeting, Boston, MA August 19-23, 2007, ORGN-895.

“Short and mild route to TMM diyls: Application in intermolecular/intramolecular trapping reactions toward natural products,” with Jinnie Myung, Abstracts of Papers, 234<sup>th</sup> ACS National Meeting, Boston, MA, United States, August 19-23, 2007, ORGN-894.

“Housane-Derived Cation Radical Chemistry and Its Application to Natural Product Synthesis”, poster session with Young Sam Park, 41<sup>st</sup> Regional Meeting of the American Chemical Society, San Diego, CA, October 9-13, 2007.

*Manuel M. Baizer Award Symposium* on Organic Synthesis, “Electrochemical Oxidation of the [2.1.0] Framework; Application to Natural Product Synthesis”, 213<sup>th</sup> national meeting of the Electrochemical Society, Phoenix, AZ, May 19, 2008

“Redox behavior of strained ring systems, & Are the pseudopterosins pro-drugs? & Advances in trimethylenemethane chemistry”, Instituto de Quimica, UNAM (The National Autonomous University of Mexico), Mexico City, Mexico, August 21, 2008

Symposium Co-Chair for “Molecular Electrochemistry: From Single Molecules to Conducting Polymers” at the 59<sup>th</sup> Annual Meeting of the International Society of Electrochemistry, Seville, Spain, September 2008

*Keynote* speaker, “Rearrangements of Cation Radicals; application to total synthesis”, 59<sup>th</sup> Annual Meeting of the International Society of Electrochemistry, Seville, Spain, September 2008,

“Recent Advances in the Redox Chemistry of Pseudopterosins, the Reactions of Housane-derived Cation Radicals, and Enantioselective Electroreductive Cyclization,” Pacific Rim Meeting on Electrochemical and Solid State Science, Joint International meeting of the Electrochemical Society of the US and Japan, Honolulu, Hawaii, October 2008

## 2009-2010

“Redox Chemistry and Bioactivity of the Pseudopterosins”, 215<sup>th</sup> Electrochemical Society Meeting, San Francisco – May 2009

“The Role of the Pseudopterins and Their Analogs in Wound Healing”, Military Health Research Forum 2009, Kansas City, Missouri, 31 August – 3 September 2009; seminar on 2 September

*Plenary* lecture, 44th Meeting of the Mexican Chemical Society (Sociedad Química de México, SQM), Puebla, Mexico, “Little-Group Explorations of Organic Redox Chemistry”, 27 September 2009

Seminar, Centro de Investigacion en Quimica Sustentable, UNAM-UAEMex, Toluca, Mexico, 30 September 2009

“Sources of Research Inspiration”, Texas State University, San Marcos, Texas, November 16, 2009

*Baizer Award Symposium Lectures*, 217<sup>th</sup> Meeting of the Electrochemical Society, Vancouver, BC, 25-30 April 2010, seminar on April 25, 2010

61<sup>st</sup> International Society of Electrochemistry Meeting, Invited lecture, Nice, France, “Of Cation and Anion Radicals: Housanes, Fulvenes, and Natural Products”, September 2010

“Blushing fulvenes with a touch of diradical for flavoring”, University of Nevada in Las Vegas, Friday October 22, 2010

“Fulvenes Return to North Carolina: From Diyls to Blushing Reds”, Duke University, Thursday, November 18, 2010

University of North Carolina, Chapel Hill, Friday, November 19, 2010

PacifiChem, Green Electrochemistry Symposium, December 15-20, 2010, “Aspects of Green Electrochemistry”

## 2011-2012

“Cyclodextrin Formulation Elicits Marked Effects on the Specific Activity of Pseudopterins in Proliferative, Inflammatory, and Antibacterial Assays”, Day, D. R. (presenter); Jabaiah, S.; Little, R. D. Jacobs, R. S., July 30-August 1, 2011, San Diego, CA, 52<sup>nd</sup> Annual Meeting of the American Society for Pharmacognosy

“Electron Transfer From the Electrode Up”, Sustainable Energy Workshop, IAMS, Academia Sinica, Taipei, Taiwan, December 15-16, 2011

“Organic electrochemistry? What is it and what can it do?” Beijing University of Technology, Beijing, China, 9 May 2012

“Exploring the Chemistry of Radical Ions.” Xiamen University, Xiamen, China, 22 May 2012



“Organic Electrochemistry – mechanism and applications”, Zhejiang University, Hangzhou, China,  
24 May 2012

*Plenary* Lecture, “Recent Efforts to Improve the Efficiency of Electron Transfer Reactions-  
Synthesis and Mechanistic Investigations”, XXVII Congress of the Mexican  
Electrochemical Society and 5th Meeting of the Mexican section of the Electrochemical  
Society, Centro de Investigación en Química Sustentable UAEM-UNAM and the  
Chemistry Faculty UAEM Toluca; 11 June 2012

### **2012-2013**

*Keynote* lecture, 63<sup>rd</sup> Meeting of the International Society of Electrochemistry, Prague, Czech  
Republic, August 2012, “Aspects of Mediated Electron Transfer”

Seminar, PIRE-ECCI Workshop, “Versatile Redox Mediators”, Dalian, China, September 2012

Winter School Electrochemistry, Kleinwalsertal, Austria, “Mediated Electron Transfer  
Processes – an Overview and Tutorial”, 19 February 2013

Winter School Electrochemistry, Kleinwalsertal, Austria, “Electron Transfer Agents for  
Mediated Catalysis”, 20 February 2013

BASF, Ludwigshafen, Germany, "One Groups' Adventures in Organic Electrochemistry", 22  
February 2013

Johannes Gutenberg Universität, Mainz, Germany, May 8 2013

Westfälische Wilhelms-Universität University, Münster, Germany, May 13, 2013

Universität Regensburg, Regensburg Germany, May 16, “Introduction to Electrochemistry”

Universität Regensburg, Regensburg Germany, May 23 (“Aspects of Mediated Electron  
Transfer”; GRK 1626 – Chemical Photocatalysis)

Universität Regensburg, Regensburg Germany, May 23 (“Tailoring Electron Transfer  
Chemistry”; GRK 1626 – Chemical Photocatalysis)

Universität Regensburg, Regensburg Germany, May 29 (Department seminar, “From Thiele  
Yellow to Diradicals – Having Fun with Reactive Intermediates”)

CenSURF videoconference presentation, 18 June 2013

### **2014-2015**

Washington University, St. Louis, MO, 20 March 2014, “Mediated Electron Transfer”

Beijing University of Technology, Beijing, China, 24 June 2014, “Redox mediation and life without traditional supporting electrolytes”

PIRE-ECCI Meeting, Zhejiang University, Hangzhou, China, 28 June 2014, “Saying no to traditional supporting electrolytes”

Electrochemical Pathway for Sustainable Manufacturing (EPSuM) Innovation Workshop, Columbus, Ohio; July 8/9, 2015, “Development of a New Reaction Medium for Organic Electrochemistry”

Keynote Lecture, Electrochemistry Division of the German Chemical Society, “GDCh-Wissenschaftsforum Chemie 2015” in Dresden, Germany, August 31st - September 2nd, Applications of Electrochemistry to Organic Synthesis: From Mediated Electron Transfer to Supporting Electrolyte Surrogates”

Keynote lecture, German-American Symposium on Electrosynthesis, “Electron Transfer Chemistry Applied to Organic Chemistry”, Johannes Gutenberg Universität – Mainz, Germany, 3 September 2015

Keynote address, 66<sup>th</sup> Annual Meeting of the International Society of Electrochemistry (ISE), Taipei, Taiwan, October 5-9, 2015, R. D. Little, Seung Joon Yoo, Sebastian Herold, Long-Ji Li, Cheng-Chu Zeng, “A Recyclable Reaction Medium: Applications to Oxidative and Reductive Organic Electrochemical Transformations”

Plenary lecture, Zhejiang University of Technology, Hangzhou, China, October 12, 2015, “An introduction to electroorganic chemistry; a powerful, useful, versatile tool”

ACS Western Regional Meeting, "Theory and Experiment Working Together -- From Synthetic Chemistry to Drug Design. A Symposium in Honor of Ken Houk", San Marcos campus of California State University, November 7, 2015, “Mediated Electron Transfer – An Electrochemical Approach”

Invited lecture, Pacifichem 2015, Honolulu, HI, December 17, 2015, "Examples of redox chemistry conducted in the absence of a traditional supporting electrolyte: Development and use of a composite dispersion"

## **2016-17**

5<sup>th</sup> UCSB-Chalmers Workshop on Materials – Materials and Processes for Energy and Chemical Conversion, seminar entitled “Redox mediators for electron transfer, 11 January 2016

Gordon Research Conference (GRC) on Heterocycles, Rhode Island, 19-24 June with presentation on 22 June 2016

Heyrovsky Prize – Award Address, 67<sup>th</sup> International Society of Electrochemistry (ISE) Meeting, Den Hague, the Netherlands, 21-26 August 2016

University of Wisconsin, “Having Fun With Reactive Intermediates”, October 27, 2016

TNO lectures (5 hours) on organic electrochemistry, Delft – The Netherlands, September 14<sup>th</sup> and 15<sup>th</sup> 2016

4th Symposium on the Frontiers of Organic Chemistry in China (4 hours of lectures), sponsored by National Natural Science Foundation of China, Hefei, China, December 2-4, 2016

Zhejiang University of Technology, Hangzhou China, “Having Fun With Reactive Intermediates”, December 5<sup>th</sup> 2016

232nd Meeting of the ECS, New Orleans, Louisiana, May 2017 (C. Marco Lam presenter)

68th Annual ISE Meeting, Providence, Rhode Island, 27 August-1 September 2017 (C. Marco Lam presenter)

7th German-Japanese Symposium On Electrosynthesis, Mainz, Germany, 14-15 September 2017

International Summer School in Organic Electrochemistry, Mainz, Germany, 17 September 2017

RDL Birthday celebration: 68<sup>th</sup> ISE Meeting – Providence, Rhode Island, 27 August – 1 September 2017

Germany – Mainz: International Summer School on Electrosynthesis, 2017 (September 17-20, 2017); Johannes Gutenberg Universität Mainz and Max Planck Graduate Center  
Talk 1: 7<sup>th</sup> German-Japanese Symposium On Electrosynthesis, Mainz, 15 September 2017  
Talk 2: Monday, September 18, 2017. “Mediation – Bound and Irradiated Mediators”

## 2018-2019

Kostenz, Germany (three seminars), June of 2018

GRK 1626, Chemical Photocatalysis, Kloster Kostenz, Germany, June 2018

*Enhancing Reaction Efficiency –  
Simple Aspects of Marcus Theory*

*Introduction to Organic Electrochemistry*

• *Mediated Redox Processes*

• *The Zeng & Francke Mediators –*

*Duality of Behaviors Coupled With Attempts to Improve Sustainability*

Ohio State University – Paquette Legacy Lecture, Thursday, May 3, 2018, “Some Advances in Organic Electrochemistry: The Paquette Inspiration”

Getting back into life: 233<sup>rd</sup> ECS meeting in Seattle, Washington, May 13-17, 2018

The International Center for Advanced Studies of Energy Conversion (ICASEC), tutorial and research lectures, Summer School on Electrochemical Approaches to Chemical Synthesis, Göttingen, Germany; October 6-9, 2019

Midwest Regional Meeting of the ACS, Wichita, Kansas, October 16-19, 2019

## 2020

Purdue University, “Having More Fun With Reactive Intermediates – the Renaissance of Organic Electrochemistry. Mechanistic Insights & Practical Lessons Learned from Studies of Electroorganic Chemistry”, 3 March 2020

Indiana University, “Having More Fun With Reactive Intermediates – the Renaissance of Organic Electrochemistry. Mechanistic Insights & Practical Lessons Learned from Studies of Electroorganic Chemistry”, 5 March 2020

Puebla, Mexico, short-course dealing with electrochemistry – co-taught with Professor Bernardo Fontana Uribe, 20-27 April 2020 – *postponed due to COVID-19*

Belgrade Serbia, Keynote Lecturer, 71<sup>st</sup> International Society of Electrochemistry (ISE) Annual Meeting, August 28 - September 4, 2020; delivered *two remote presentations*, one to remember the late Professor Dennis Peters of Indiana University who died of COVID-19.

Beijing, China, 12-18 September 2020 – *postponed due to COVID-19*

Seoul, Korea, September 2020 – date to be coordinated with Beijing trip – *postponed due to COVID-19*

Wuhan, China, end of October-beginning of November 2020 – date depends upon eradication of the Corona virus (COVID-19); *postponed due to Covid*

## 2022

Manuel M. Baizer Award address (*A Perspective on Organic Electrochemistry*; 30 June 2022) at the 241<sup>st</sup> meeting of the Electrochemical Society in Vancouver, BC, Canada, May 29-June 2, 2022

First Regional Meeting of the International Society of Electrochemistry (ISE), 15-19 of August 2022, *Ongoing Interest, Thoughts, and Realizations into the Behavior and Use of Redox Mediators*, Keynote lecture delivered on 13 August 2022.