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R. Daniel Little (Dan)

Born and raised in Superior, Wisconsin

Married; three children; two grandchildren

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Education

- Wisconsin State University, Superior, BS in chemistry and mathematics; 1969
- University of South Dakota; summers of 1967 and 1968
- Argonne National Laboratory; spring semester 1969
- University of Wisconsin, Madison (Wisconsin Alumni Research Foundation Fellow), PhD, 1974
- Yale University, postdoctoral fellow, 1974-75

Positions

- Professor, UCSB, 1986 – present
- Chair, Department of Chemistry & Biochemistry, UCSB, 1996-July 1, 2000
- Vice-Chair, Department of Chemistry, UCSB, 1995-96
- Visiting Professor University of British Columbia, Oct-Dec-1987
- Associate Professor, UCSB, 1981-86
- Assistant Professor, UCSB, 1975-81

Memberships

- The International Society of Electrochemistry
- The Electrochemical Society
- The American Chemical Society
- The American Society of Pharmacognosy
- The International Society of Heterocyclic Chemistry
- Phi Lambda Upsilon; Sigma Xi (past vice-president & president of Santa Barbara Section)

Honors, awards, recognition, special service

- Scientific advisory board, World Congress of Catalytic Asymmetric Synthesis-2010, Beijing, China
- Plenary lecture, 44th Meeting of the Mexican Chemical Society (Sociedad Química de México, SQM)
- Keynote address, The 59th International Society of Electrochemistry, Seville, Spain, September 2008
- NSF review panel
- Introductory Lecturer, The 40th Heyrovsky Discussion, Czech Republic, June 2007
- NIH reviewer, Special Emphasis Panel, BCMB IGR, fellowship applications in Chemical & Bioanalytical Sciences, June 28, 2007
- Outstanding Faculty Member, Student Affiliates of the American Chemical Society, UCSB, 2004
- Merck Frosst Distinguished Lecturer, Montreal and Sherbrooke, Quebec; 2003
- NIH study section member (Med Chem A; October, 2001)
- NIH Reviewers Reserve (1993-1997)
- NIH *ad hoc* panel member (BNP and MCHA study sections)
- NSF IGERT review panel (1997)
- NIH Medical Chemistry Advisory Committee (MCHA [med-chem A], 1989-93)
- International Scientific Advisory Committee –International Symposium of Electroorganic Synthesis, 1994 (Kurashiki, Japan)
- Outstanding Alumnus, University of Wisconsin, Superior, 1994
- Member of *ad hoc* Quinquennial Committee Reviewing the UC Cancer Research Coordinating Committee (1994)
- Member of the UC Cancer Research Coordinating Committee (CRCC; 1981-1985)
- Organizer of International Symposium: "The Role of Electrochemistry in Organic Synthesis and Organometallic Chemistry" for the 183rd 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
- 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)
- NSF Undergraduate Research Program (NSF-URP), University of South Dakota (1967 and 1968)

- Owl and Serpent Award (1967), Wisconsin State University, Superior

Editorial activities

- Associate editor – *Research Letters in Organic Chemistry*
- Member of the editorial board for *Letters in Organic Chemistry*
- Guest editor - Pure and Applied Chemistry, 1996, 1st issue of volume 68

Research interests

http://www.chem.ucsb.edu/~little_group/

One major focal point of our research is upon the **chemistry and pharmacology** of the **pseudopterosin class of marine natural products**. We are attempting to (1) determine where the pseudopterosins go when they interact with a G-protein coupled receptor, (2) determine what they do when they get there, and (3) synthesize new structures with significantly improved wound healing properties. In the past week (today is 3 October 2008) we have obtained evidence suggesting that a critical step in the activation of the receptor may be an **oxidation** of the pseudopterosin core. Our efforts to uncover the details of what we believe to be **proton-coupled electron transfer** events make use of **cyclic voltammetry** and **preparative scale electrochemical and reagent initiated** transformations in order to isolate and characterize the product(s). For an example of some of our recent work in this area, see: *J. Org. Chem. (Featured article) 2008, 73, 7011-7016*.

Another topic of considerable interest focuses upon the **mediated, electrocatalytic** processes, and upon obtaining an understanding of the fundamental nature of the reactive intermediates produced in this manner, as well as their chemical transformations. As a consequence, we are developing chemistry of both **cation and anion radicals**. Our radical anion chemistry concentrates upon electroreductive cyclizations of the variety we describe in *J. Org. Chem. 2005, 70(20), 8017-8026*, while the cation radical chemistry highlights the rearrangements of housane-derived cation radicals (see, for example *J. Org. Chem. 2007, 72(12), 4351-4357*). We are particularly interested in further explorations of remote regiochemical control, and upon applying our knowledge of these factors to the synthesis of **natural products**. The cation radicals are being generated in three ways, *viz.*, (1) by using triarylamminium antimony salts; (2) through the use of **electrochemical mediators**, once again used catalytically; and (3) by direct oxidation at the anode. Thus far, the 2nd and 3rd options have proven most effective and have lead to the cleanest and most reproducible results. This chemistry has matured to the point where we have applied it to the **total synthesis of natural products** possessing the [4.3.0] and [5.3.0] frameworks. For a recent example of our research activities involving cation radicals, see: *J. Org. Chem. 2008, 73(17), 6807-6815*.

Lastly, in an effort to reduce costs and waste, we are following up on some beautiful work that emanated from Steckhan's labs, calling for the use of recyclable, polymer bound triarylamine redox reagents to affect the oxidative rearrangement chemistry.

We make significant use of **quantum mechanical calculations** in an effort to understand and rationalize the detailed course of the chemistry we study, with an ultimate goal being to predict the course of as yet untried processes. In addition to our *steadily growing efforts at UCSB*, we have teamed up with Professor Dean Tantillo of UC Davis to carry out calculations at the highest levels of theory. Here, one of our objectives is to provide a 'complete' map of the potential energy surfaces for the **cation radical rearrangements**. Thus far, the transformations have displayed relatively flat surfaces, suggesting that dynamic effects of the nature first promulgated by Carpenter and coworkers may be playing a role.

Finally, we continue our longstanding research activities involving **diradicals**, particularly those related to **trimethylenemethane**. At the present time, we are perfecting the development of a new, highly concise route to these reactive intermediates and the rich array of chemical transformations they undergo. For a sample of our work in this area see: *J. Org. Chem., 2004, 69(25), 8574-8582*

Publications

#	Year	Title and Author(s)	Publisher	Category
1.	1972	Contrasting Photochemistry of Cyclopentenone and Cyclohexenone, H. E. Zimmerman and R. D. Little	<i>J. Chem. Soc., Chem. Commun.</i> , 698	Article
2.	1972	Evidence for Requirement of the Second π -Bond in the Di- π -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> , 94 , 8256	Article
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> , 96 , 4623	Article
4.	1974	A Novel Photochemical 1,4-Phenyl Migration. The Role of the Second π -Bond in the Di- π -methane Rearrangement. Mechanistic and Exploratory Organic Photochemistry, H. E. Zimmerman and R. D. Little	<i>J. Amer. Chem. Soc.</i> , 96 , 5143	Article
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> , 98 , 5723	Article
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> , 98 , 5725	Article
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	Article
8.	1978	A New, Mild Method for the Synthesis of Azo Compounds, R. D. Little and M. G. Venegas	<i>J. Org. Chem.</i> , 43 , 2921	Article
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> , 100 , 4607	Article
10.	1978	Equivalent Expressions for the Description of Several Pericyclic Reactions, R. D. Little	<i>J. Chem. Ed.</i> , 55 , 792	Article
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	Article

12. 1979 Carbon-13 Chemical Shifts in Tricyclo[6.3.0.0.^{3,7}]undecanes (Linearly Fused Tricyclopentanoids),
M. G. Venegas and R. D. Little *Tetrahedron Lett.*, 309 Article
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 Article
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 Article
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 Article
16. 1980 Facile Construction of C₁₀ Modified Prostaglandin Precursors. Diyl Trapping Reactions Using Phenyl Vinyl Sulfoxide and Phenyl Vinyl Sulfone,
R. D. Little and L. Brown *Tetrahedron Lett.*, **21**, 2203 Article
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 Article
18. 1980 Oxidative Desulfonation. Phenyl Vinyl Sulfone as a Ketene Synthetic Equivalent,
R. D. Little and Sun Ok Myong *Tetrahedron Lett.*, **21**, 3339 Article
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 Article
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 Article
21. 1981 Intramolecular 1,3-Diyl Trapping reactions: Total Synthesis of the Marine Natural Product (*d,l*)- $\Delta^{9(12)}$ -Capnellene,
R. D. Little and G. L. Carroll *Tetrahedron Lett.*, **22**, 4389 Article
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 Article
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 Article

24. 1983 Total Synthesis of the Marine Natural Product $\Delta^{(9,12)}$ Capnellene. Reversal of Regiochemistry in the Intramolecular 1,3-Diyl Trapping Reaction, R. D. Little, G. L. Carroll, and J. L. Petersen *J. Amer. Chem. Soc.*, **105**, Article 928
25. 1983 Electrogenerated 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 Article
26. 1983 Preparation of Bis-2,2,2-Trichloroasodicarboxylate, R.D. Little and M.G. Venegas *Organic Syntheses*, **61**, 17 Article
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 Article
28. 1983 Consequences of Intramolecular Diyl Trapping Reactions Using Unactivated Diylphiles. A Short, Convergent Synthesis of Hirsutene, R.D. Little, R.G. Higby and K.D. Moeller *J. Org. Chem.*, **48**, 3139 Article
29. 1983 Some Unusual Reactions of Molecular Oxygen with Bicyclic Diazenes Which Typically Serve as Precursors to Alkylidene-cyclopentane-1,3-Diyls. Peroxide Formation, R.D. Little, L. Losinski-Dang, M.G. Venegas and C. Merlic *Tetrahedron Letters*, **24**, Article 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**, Article 6976
31. 1983 Electrogenerated Bases. VI. Reaction of Electrogenerated Superoxide with Some Carbon Acids. II, M. Sugawara, M.N. Baizer, W.T. Monte and R.D. Little *Acta Chem. Scand.*, B **37**, Article 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 Article
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**, Article 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 Article

35. 1985 Asymmetric Induction in the Intramolecular 1,3-Diyl Trapping Reaction. Use of a Stereogenic Atom Located on the Chain Linking the Diyl and Diylophile, K. J. Stone and R. D. Little *J. Amer. Chem. Soc.*, **107**, 2495-2505 Article
36. 1985 Use of Heteroatom Containing π 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 Article
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 Article
38. 1985 Intramolecular Electroreductive Cyclization, D.P. Fox, R.D. Little and M.M. Baizer *J. Org. Chem.*, **50**, 2202 Article
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 Article
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 Article
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 Article
42. 1986 A Stereoselective Electroreductive Cyclization Pathway to the Isolactarane-type Sesquiterpene 1-Sterpurene, L. Moëns, Manuel M. Baizer, and R. Daniel Little *J. Org. Chem.*, **51**, 4497 Article
43. 1986 The Intramolecular Diyl Trapping Reaction. A Useful Tool for Organic Synthesis, R. D. Little *Chem. Reviews*, **86**, 875 Review Article
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 Article
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 Article
46. 1988 Electroreductive Cyclization. Ketones and Aldehydes Tethered to α,β -Unsaturated Esters (Nitriles). Fundamental *J. Org. Chem.*, **53**, 2287 Article

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R. D. Little, D. P. Fox, L. Van Hijfte, Robert Dannecker, G. Sowell, R. L. Wolin, L. Moëns, and Manuel M. Baizer
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 Article
 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 Article
 49. 1989 Enone Electrochemistry, R. D. Little and Manuel M. Baizer in *The Chemistry of Enones*, S. Patai and Z. Rappoport, Eds., John Wiley & Sons: New York; Chapter 14 Book
 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 Article
 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 Article
 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 Article
 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 Article
 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 Article
 55. 1991 Electroreductive Cyclization Reactions: Attempts to Use 2(5H)Furanones (α,β -Unsaturated Butenolides). Dominance of Acid-Base Over Cyclization Chemistry, M.A. Amputch and R.D. Little *Tetrahedron*, **47**, 383 Article
 56. 1991 *Electroorganic Synthesis - Festschrift in Honor of Manuel M. Baizer*, Little, R.D. & Weinberg, N.L. Eds.; Marcel Dekker: New York Book
 57. 1991 Stereoselective Electroreductive Cyclization. Construction of a Corey Lactone Precursor. R.D. Little and C.G. Sowell in *Festschrift in Honor of Manuel Baizer*, Little, R.D. & Weinberg, N.L., Eds.; Marcel Dekker: Chapter

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58. 1991 [3+2] Cycloadditions-Thermal, R.D. Little in *Comprehensive Organic Chemistry*, B. M. Trost & L.A. Paquette, Eds.; Pergamon: Oxford Chapter
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 Article
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61. 1992 Strategies and Tactics in Organic Synthesis. Volume 3 R. D. Little Edited by Thomas Lindberg (The Upjohn Company). Academic Press: San Diego. 1991. xx + 544 pp. R.D. Little, *J. Am. Chem. Soc.*, **114**, 7610-7611 Book Review
62. 1993 [3 + 2] and [4 + 2] Cycloadditions of C₆₀, 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 Article
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 Article
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65. 1994 Asymmetric Induction in the Michael Initiated Ring Closure Reaction, M.A. Amputch, R. Matamoros, R.D. Little *Tetrahedron*, **50**, 5591-5614 Article
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 Article
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69. 1994 An Electroreductive Cyclization Approach to the Bicyclo[3.2.1] Framework, R. D. Little, R. Wolin, G. Sowell *Denki Kagaku*, 62, 1105 Article
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75. 1995 Organic Reactions, Associate Editors R.D. Clark, A. Jahangir, R.D. Little, M.R. Masjedizadeh, J.I. McLoughlin, O. Wallquist John Wiley & Sons, Inc. Book
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80. 1996 Organometallic Nucleophilic Ring Opening of Endoperoxides, M. K. Schwaebe and R. D. Little *Tetrahedron Lett.*, **37**, 6635 Article
81. 1996 Electrochemical Cyclization at the Cathode, R.D. Little and M.K. Schwaebe *Topics in Current Chemistry*, **185**, 1-48; Springer Chapter
82. 1997 Intermolecular Diyl Trapping Reactions: Allenes as Diyllophiles, Xiaodong Lin and R. D. Little *Tetrahedron Lett.*, **38**, 15 Article
83. 1997 An Improved Workup for Samarium(II)iodide Reactions, M. K. Schwaebe and R. D. Little *Synthetic Communications*, **27**, 837-840 Article
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88. 1998 Electroreductive Cyclization Reactions. Studies Directed Toward the Phorbol Esters and Bioactive Diterpenes, J. I. Lozano, G. L. Carroll, R. D. Little *Novel Trends in Electroorganic Synthesis* 221; Springer: Tokyo Article
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Scandinavica, **53**, 792-799
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M. M. Ott and R. D. Little
Studies in Natural Products Chemistry [Bioactive Natural Products (Part C)], vol. 22
Elsevier: Amsterdam Book chapter
96. 2000 Atom Transfer Reactions of TMM Diyls Directed Toward the
Synthesis of Rudmollin,
G. Law Carroll, A. Kim Allan, M. K. Schwaebe, & R. D. Little
Org. Lett. **2**, 2531-2534. article
97. 2000 Inter- and Intramolecular Reductive Coupling Reactions; An
Approach to the Phorbol Skeleton,
G. L. Carroll & R. D. Little
Org. Lett. **2**, 2873-2876 article
98. 2000 A Facile Synthesis of 6-Alkyl/aryl-5-acyl-2,2-dimethyl-1,3-
dioxin-4-ones,
R. D. Little and Wade A. Russu
J. Org. Chem., **65**, 8096-8099 article
99. 2001 Electrosynthesis of Bioactive Materials,
R. D. Little and P. Mikesell
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H. Lund & O. Hammerich, Eds., M.
Dekker, New York,
Chapter 19, pp 725-764. book chapter
- 100 2001 Diradicals in Organic Synthesis,
J. D. Parrish and R. D. Little
Radicals in Organic Synthesis, Vol. 2, pp 383-406,
Renaud and M. Sibi, Eds., Wiley-VCH:
Weinheim book chapter
- 101 2001 Electrosynthesis of natural products, fine chemicals and
pharmaceuticals,
R. D. Little
Encyclopedia of Electrochemistry. Vol. 8:
Organic Electrochemistry (Ed. H. J. Schäfer),
Wiley-VCH, Weinheim, Germany chapter
- 102 2001 On the Regiospecificity of Vanadium Bromoperoxidase,
J. S. Martinez, G. L. Carroll, R. A. Tschirret-Guth, G.
Altenhoff, R. D. Little, A. Butler
J. Am. Chem. Soc., **123**, 3289-3294. article
- 103 2001 Natural Products and Medicinally Important Compounds,
R. D. Little and J. D. Parrish
Rodd's Chemistry of Carbon Compounds:
Topical Volume on Electrochemistry chapter
- 104 2001 Vinylcyclopropyl TMM diyls: access to 8-membered rings,
P. J. Mikesell, R. D. Little
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- 105 2001 Electrochemical Formation of Glycals in THF, *Tetrahedron Lett.* **42** (42), article
J. D. Parrish and R. Daniel Little 7371-7374
- 106 2001 Electrochemical Generation of Low-Valent Lanthanides, *Tetrahedron Lett.* **42** (44) article
J. D. Parrish and R. D. Little 7767-7770
- 107 2002 Preparation of C-Glycosides from Glycals, *Org. Lett.*, **4**, 1439 article
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- 108 2002 [3+2] vs [4+3] Cycloaddition of conjugated dienes to TMM- *Tetrahedron Lett.* article
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R.D. Little
- 109 2002 Organic Electrochemistry as a Tool for Synthesis, *The Electrochemical* Feature
R. Daniel Little and Kevin D. Moeller *Society Interface*, pp. 36- article
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- 110 2003 Coping with Substituent Effects in Divinylcyclopropyl Diazene *Tetrahedron Lett.* 44(10), article
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Georgia Law Carroll, Roy Harrison, James Gerken, and R. D.
Little
- 111 2003 Vanadium Haloperoxidase-catalyzed Bromination of Terpenes, *J. Am. Chem. Soc.* article
Jayme N. Carter-Franklin, Jon D. Parrish, Richard A. 125(13), 3688-3689
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- 112 2003 Titanocene(III)-Promoted Reformatsky Additions, *Org. Lett.* 5(20), 3615- article
J. D. Parrish, Daniel R. Shelton, R. Daniel. Little 3617
- 113 2004 From Dimerization, to Cycloaddition, to Atom Transfer- *J. Org. Chem.*, article
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Yvette S. Mimieux, and R. Daniel Little
- 114 2005 The positive effect of oxygenated solvents for the synthetic use *Electrochimica Acta* article
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Bernardo A. Frontana-Urbe and R. D. Little
- 115 2005 Remote Substituent Effects upon the Rearrangements of *J. Org. Chem.*, article
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James B. Gerken, Selina C. Wang, Alejandro B. Preciado,
Young Sam Park, Gisele Nishiguchi, Dean J. Tantillo, and R.
Daniel Little
- 116 2005 From C-Glycosides to Pyranopyrans: An Approach to *J. Org. Chem.*, article
Thyriferol using Titanium(III) Promoted Redox Couplings, 70(13), 5249-5256
Gisele A. Nishiguchi and R. Daniel Little
- 117 2005 Indirect Electroreductive Cyclization and Electrohydro- *J. Org. Chem.*, article
cyclization Using Catalytic Reduced Nickel(II) Salen 70(20), 8017-8026
James Miranda, Carolyn Wade, and R. Daniel Little

- 118 2006 The influence of Electrogenerated Sm(II), Electrogenerated Yb(II), and Magnesium Ions Produced at a Sacrificial Magnesium Anode, Upon the Diastereoselectivity of Electroreductive Cyclization Reactions
Richard Yee, Jennifer Mallory, J. D. Parrish, Georgia Law Carroll, and R. Daniel Little *Electroanalytical Chemistry* (Special issue in honor of Peter Zuman), 593, 69-73 article
- 119 2006 Synthetic Efforts Toward, and Biological Activity of Thyrsiferol and Structurally-Related Analogs
R. Daniel Little and Gisele A. Nishiguchi *Studies in Natural Product Chemistry (Bioactive Natural Products)*, Ed.: Atta-ur-Rahman; Elsevier: Amsterdam, Netherlands, in press chapter
- 120 2006 7,11-Epi-Thyrsiferol: Completion of its Synthesis, Evaluation of its Antimitotic Properties, and the Further Development of an SAR Model
Gisele A. Gisele A. Nishiguchi, John Graham, A. Bouraoui, R.S. Jacobs, R. Daniel Little *J. Org. Chem.* 71(16), 5936-5941 article
- 121 2006 on line; 2007 hard copy of journal Progress toward the synthesis of the bicyclo (6.3.0) framework using TMM diyls
Joohee Hong, Richard Yee, R. Daniel Little *Arkivoc* (issue in honor of the 65th birthday of Professor Atta-ur-Rahman, available online at: www.arkat-usa.org, in volume 2007, Part (vii), page number 233 article
- 122 2006 Investigation of vinylcyclopropane monoradical cyclization-fragmentation as a possible route towards eight-membered rings
James A. Miranda and R. Daniel Little *Heterocycles*, in honor of Prof. Steven Weinreb, Published online, 7 November, 2006 article
- 123 2007 Bis(2,2,2-trichloroethyl) Azodicarboxylate
Wade A. Russu and R. Daniel Little *Encyclopedia of Reagents for Organic Synthesis*, Copyright © 2007 John Wiley & Sons, Ltd
DOI:
10.1002/9780470842898.r
b198.pub2
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Date: March 15, 2007 article
- 124 2007 A Highly Selective Rearrangement of a Housane-derived Cation Radical; an Electrochemically Mediated Transformation
Young Sam Park, Selina Wang, Dean Tantillo, R. Daniel Little *J. Org. Chem.* 72(12), 4351-4357 article

125	2008	iso-PsE: A New Pseudopterosin Christophe Hoarau, Daniel Day, Claudia Moya, Guang Wu, Abdul Hackim, Robert S. Jacobs, R. Daniel Little	<i>Tetrahedron Lett.</i> 49(31), 4604-4606 http://dx.doi.org/10.1016/j.tetlet.2008.05.106	Letter
126	2008	"Redox electron transfer reactions: electrochemically mediated rearrangement, mechanism, and a total synthesis of daucene" Young Sam Park and R. Daniel Little	<i>J. Org. Chem.</i> 73(17), 6807-6815 DOI: 10.1021/jo801199s	article
127	2008	Synthesis and an evaluation of the bioactivity of the C-glycoside of pseudopterosin A (PsA) methyl ether Wei Zhong, Claudia Moya, R. S. Jacobs, R. Daniel Little	<i>J. Org. Chem.</i> 73, 7011-7016 http://dx.doi.org/10.1021/jo801432t	Featured article
128	2008	Synthesis and evaluation of the bioactivity of simplified analogs of the seco-pseudopterosins; progress toward determining a pharmacophore Virginia M. Tanis, Claudia Moya, R. S. Jacobs, R. D. Little	<i>Tetrahedron</i> 64 (47), 10649-10663 http://dx.doi.org/10.1016/j.tet.2008.09.025	article
129	2009	Rearrangements of electrochemically generated cation radicals: The quest for regiochemical control and an application to total synthesis Young Sam Park and R. Daniel Little	<i>Electrochimica Acta</i> 2009 , 54, 5077-5082 doi:10.1016/j.electacta.2009.01.020	article
130	2009	Intramolecular Diyl Trapping Reactions en Route to the Bicyclo [3.2.1] Framework; an Approach to Aphidicolin Wei Zhong and R. Daniel Little	<i>Tetrahedron Letters</i> 2009 , 50, 4994-4997 doi:10.1016/j.tetlet.2009.06.083	article
131	2009/10	Exploration and Determination of the Redox Properties of the Pseudopterosin Class of Marine Natural Products Wei Zhong and R. Daniel Little	<i>Tetrahedron</i> Symposium in Print (Electron Transfer) 10.1016/j.tet.2009.09.021	article

Patents

1. 2004 – Jacobs, Robert S.; Little, R. Daniel. Preparation of soritins and their use in drugs and cosmetics. U.S. Pat. Appl. Publ. (2004), 18 pp.
2. 2005 – Jacobs, Robert S.; Little, R. Daniel; Moya, Claudia A. Pseudopterosins Are Known Anti Inflammatory Agents Currently Under Clinical Investigation For Uses In Wound Healing and Other Applications Related To Skin Injury and Inflammation”, UC Case No. 2005-759-1 (Disclosure and Record of Invention).
3. 2007 – Jacobs, Moya, Day, Little, Hoarau. Disclosure and Record of Invention: “Pseudopterosins, Selective Adenosine Receptor Activators”. UC Case No. 2007-426-1
4. 2008 – Little, R. D.; Jacobs, R. S.; Moya, C.; Tanis, V. Disclosure and Record of Invention: “New, Synthetic Anti-inflammatory Agents”

Seminars/talks

- 1972-73** Presented paper, "Excited State Phenyl 1,4-Migration; Long Range Di- π -Rearrangements," H.E. Zimmerman and R. Daniel Little, Paper No. 96, (Presented by R.D. Little), 164th National American Chemical Society Meeting, New York, August, 1972.
Seminar, University of Wisconsin, Madison, WI.
- 1974-75** Invited Seminar, Yale University, New Haven, CT
Invited Seminar, Iowa State University, Ames, Iowa
Invited Seminar, Purdue University, West Lafayette, IN.
Invited Seminar, Vanderbilt, Nashville, TN
Invited Seminar, USC, Los Angeles, CA
Invited Seminar, UCSB, Santa Barbara, CA
- 1975-76** Presented paper, Southern California Division of SynCom (Synthetic Communication), April, 1976.
- 1977-78** Presiding Chairman, Division of Organic Chemistry, Section B, 175th ACS National Meeting, Anaheim, California, March 13-17, 1978.
Invited to attend, "Conference on the Spin States of Organic Molecules," Boulder Colorado, June 21-24, 1978.
Invited to attend "XVII Conference on Reaction Mechanisms," Duluth, Minnesota, June 26-29, 1978.
Presented Chemistry Department Faculty Seminar, UCSB, "From Sulfoxes to Sulfides to Diyls."
- 1978-79** Presented Seminar, California State University, San Francisco, Sept. 22, 1978.
Presented Seminar, California State University, Chico, November 16, 1978.
Presented paper, "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.
Presented paper, Southern California Division of SynCom (Synthetic Communication) March, 1979.
Presiding Chairman, 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.
Presented paper, "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.
Presented Seminar, California State University, Long Beach, April 25, 1979.
- 1979-80** Presented paper, "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.
Presented paper, "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.
Presented seminar, University of California, Riverside, October 2, 1979.
Presented seminar, University of California, Santa Cruz.
Presented seminar, Northern Arizona University, Flagstaff.
Presented poster, "Intramolecular Diyl Trapping Reactions," Third I.U.P.A.C. Symposium on Organic Synthesis, Madison, Wisconsin, June 15-20, 1980.
- 1980-81** Presented paper, "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.

- Presented paper, "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.
- Chairperson of the Bio-organic Section of the Second Chemical Congress of the North American Continent, Las Vegas, Nevada, August, 1980.
- Presented seminar, UCLA, Fall, 1980.
- Presented seminar, California State University, Los Angeles, (CSULA), Spring, 1981.
- Presented seminar, State University of Ghent, Ghent, Belgium, June, 1981.
- Presented seminar, Third European Symposium on Organic Chemistry, Stressa Italy, June 1981.
- 1981-82** Presented seminar, NSF Workshop on Organic Synthesis and Natural Products (19 invited participants), July, 1981.
- Presented Plous Award Address, October 29, 1981.
- Presented seminar, University of California, San Diego, September, 28, 1981.
- Presented seminar, University of California, Irvine, October 26, 1981.
- Invited speaker, Natural Products Synthesis Symposium, Pacific Conference on Chemistry and Spectroscopy, "Intramolecular Diyl Trapping Reactions in Natural Products Synthesis," Anaheim, CA, October, 1981.
- Presented paper, "New Reagents in Organic Synthesis, Ring Forming Reactions Using MIRC and EMIRC," with S. Nugent, Pacific Conference on Chemistry and Spectroscopy, October 20, 1981.
- Presented seminar, University of California, Berkeley, April 21, 1982.
- 1982-83** Presented paper, "Electrochemically Generated Superoxide-Initiated Autooxidation of Nitro Groups to Carbonyls", with W. T. Monte, Pacific Conference on Chemistry and Spectroscopy, October 27-29, 1982.
- Presented paper, "Asymmetric Induction in Intramolecular Diyl Trapping Reactions", with K. D. Moeller, San Francisco.
- Presented seminar, Department of Chemistry and Molecular Sciences, University of Warwick, Coventry, England, January 17, 1983
- Presented seminar, Department of Chemistry, University of Nottingham, Nottingham, England, January 19, 1983.
- Presented seminar, Department of Chemistry, University of York, York, England, January 21, 1983.
- Presented seminar, Chimie Bio-Organique, Universite Libre de Bruxelles, Brussels, Belgium, February 1983.
- Presented seminar, Max Planck Institute fur Kohlenforschung und Strahlenforschung, Mülheim, A. D. Ruhr, West Germany, February 3, 1983.
- Presented seminar, Lehrstuhl Fur Organische Chemie, Universitat Freiburg, Freiburg, West Germany, February 9, 1983
- Presented seminar, Department of Chemistry, University of Utah, Salt Lake City, Utah, May 5, 1983.
- Presented seminar, "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** Presented seminar, Department of Chemistry, UCLA, February 9, 1984
- Presented seminar, "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.
- Presented Poster Session, "Intramolecular Electroreductive Cyclization", 35th Meeting of the International Society of Electrochemistry, Berkeley, August 7, 1984.
- 1984-85** Presented seminar, 35th Meeting of the International Society of Electrochemistry, Berkeley, CA, August 7, 1984
- Presented seminar, Symposium on Organic Synthesis, Pacific Conference on Chemistry and Spectroscopy, October 26, 1984

- Invited speaker, Symposium on Organic Electrochemistry, PAC Chemistry 1984 Conference, Honolulu, Hawaii, December, 1984
- Presented seminars at the 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** Invited seminar, Chemistry Department Colloquium, Santa Barbara, October 4, 1985
Invited seminar, University of Alberta, Edmonton, Alberta, Canada, March 23-25, 1986.
Invited seminar, University of British Columbia, Vancouver, British Columbia, Canada, March 25-26, 1986.
Invited seminar, Massachusetts Institute of Technology, May 8, 1986
Invited speaker, 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.
Chairperson, Gordon Research Conference on Physical Electrochemistry, Organic Electrochemistry Session, August 13, 1986.
Chairperson, 192nd American Chemical Society Meeting, Symposium on Advances in Free Radical Chemistry, Anaheim, CA, September 10, 1986.
Keynote Speaker, University of Wisconsin, Zimmerman Symposium on Physical Organic Chemistry, Madison, Wisconsin, October 10-11, 1986.
- 1987-88** Invited Seminar, Chemistry Department Colloquium, UC Riverside, February 18, '87
Syncon Meeting, UC Riverside, May 1987.
Seminar, 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.
Seminar, 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.
Invited Seminar, Meeting of the Electrochemical Society, Honolulu, Hawaii, October 1987.
Invited Seminar, University of British Columbia, Vancouver, British Columbia, Canada
Invited Seminar, Florida State University, Tallahassee, Florida, December 3, 1987.
Invited Seminar, UCLA, February 18, 1988.
Invited Seminar, University of Minnesota, April 13, 1988.
Invited Seminar, 3-M, St. Paul, Minnesota, April 14, 1988.
Keynote Speaker, Table Ronde Roussel-Uclaf N^o 62, Institute Scientifique Roussel, "Free Radicals in Organic Synthesis," Paris, France, June 29, 1988.
- 1988-89** Invited Seminar, Technische Hochschule, Darmstadt, Germany, September 18, 1988.
Invited Seminar, Merrell Dow Research Institute, Strasbourg, France, September 23, 1988.
Invited Seminar, UC-Davis, Davis, CA, April 13, 1989.
Invited Seminar, Stanley Wazonek Symposium, Electrochemical Society Meeting, Los Angeles, CA, May 1989.
Invited Seminar, SYNCON Meeting, UCLA, May 27, 1989.
Invited Seminar, Free Radical Symposium, 44th Northwest Regional Meeting of the American Chemical Society, Reno-Sparks, Nevada, June 14-16, 1989.
Student delivered seminars/poster sessions:

Mohammad R. Masjedizadeh (poster session) at the 31st National Organic Chemistry Symposium of the American Chemical Society, Cornell University, Ithaca, New York, June 1988.
Mohammad R. Masjedizadeh at the 195th Meeting of the American Chemical Society, Los Angeles, CA, September 1988.

- 1989-90** Invited Seminar, The 40th Meeting of the International Society of Electrochemistry, Kyoto, Japan, September 17-22, 1989.
Session Chairperson, The 40th Meeting of the International Society of Electrochemistry, Kyoto, Japan, September 17-22, 1989.
International Society of Electrochemistry (ISE) Presymposium: "The Frontier of Electrochemistry," Sendai, Japan, September 15-16, 1989.
Invited Seminar, with C.G. Sowell: National Meeting of the American Chemical Society, Miami, Florida, September 1989.
Invited Seminar, with H.E. Bode: National Meeting of the American Chemical Society, Miami, Florida, September 1989.
Co-chairperson (with J.H.P. Utley, N. Weinberg and H. Chum) for the Manuel M. Baizer Memorial Symposium, Electrochemical Society Meeting, Canada, May 1990.
Invited seminar, University of Southern California, March 14, 1990.
Co-chairperson C.A. Bunton Symposium, UCSB, May 26, 1990.
- 1990-91** Invited Seminars:
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, Universitywide 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).
Universitywide AIDS Conference, Poster session, San Francisco, March 12-13, 1992.
- 1992-93** Keynote Lecture, 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)
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.
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)
Session Chair, 44th Meeting of the International Society of Electrochemistry, Berlin, September 5-10, 1993 (9/9)
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)
Poster Session 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)
- 1996-97** Seminar, UC-Riverside, November 20, 1996, "Diyl Trapping Chemistry"
Seminar, The Clorox Technical Center Seminar Program, Aspects of Diradical and Radical Anion Chemistry, July 16, 1997.
- 1997-98** Invited lecture, 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).
Session chair, The 3rd International Symposium on Electroorganic Synthesis, Kurashiki, Japan, September 25, 1997.
Seminar, Amy Allan, M. K. Schwaebe, R. D. Little, 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, April 14, 1997.
Seminar, Georgia L. Carroll, R. D. Little, 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, 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.
Seminar, Wade Russu and R. D. Little, 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, August 27, 1998.
Seminar, Peter Mikesell and R. D. Little, 216th National American Chemical Society Meeting (August 23-27, 1998), Boston, MA, Trimethylenemethane-induced vinylcyclopropyl ring opening as a route to taxoids, August 27, 1998.
- 1998-99** UCLA Organic Colloquium, March 19, 1998, "Adventures in Diradical and Electrochemistry."
Seminar, Washington University, St. Louis, September 24, 1998.
Poster session, Georgia Carroll and R. D. Little, Gordon Research Conference on Free Radical Reactions, July 11-16, 1999, Plymouth, New Hampshire.
Seminar, "Recent Adventures in Diradical Chemistry," April 5, 1999, UC-Santa Cruz
Participant, E. Piers Symposium, U. British Columbia, January 30, 1999.
Plenary speaker, 21st Sandbjerg Meeting on Organic Electrochemistry, June 18-21, 1999, Sandbjerg, Denmark.
Participant, Annual meeting Council of Chemical Research (CCR), "Research for Sustainable Growth of the Chemical Enterprise," Baltimore, MD, September 25-28, 1999.
Participant - Biotechnology Leadership Summit - participant, Cottage Hospital, 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

Symposium entitled - 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 199th 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.

Session chair at the 199th Meeting of the Electrochemical Society, 25-29 March 2001, Washington, D.C.

Reduction of Glycosyl Halides in THF, Parrish, J.D.; Little, R.D. presented by Jon Parrish at the 22nd Sandbjerg Meeting on Organic Electrochemistry, 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"

16th 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, 53rd Annual Meeting of the International Society of Electrochemistry, Düsseldorf, Germany, 15-20 September 2002; talk on 19 September, entitled "Applications of electrochemistry to Problems in Organic Synthesis"

The 10th 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 9th (the 9th International Symposium on Organic Free Radicals), Porto-Vecchio, France (Corsica), 11 June 2004.

6th International M. Baizer Award Symposium on Organic Electrochemistry, San Antonio, Texas, 10 May 2004

Merck-Frosst Distinguished Lecturer (16th 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

Seminar, 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.

Seminar, 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 209th Meeting of the Electrochemical Society in the Symposium “Mechanistic Organic Electrochemistry Symposium in Honor of the 80th Birthday of Professor Petr Zuman, Denver, CO – May 7-12, 2006.

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

12th 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

2nd 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

40th Heyrovsky Discussion on Electrochemistry of Molecules with Multiple Redox Centers, Castle Trest, Czech Republic, June 10-14, 2007, introductory lecturer

Speaker, 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, 234th 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, 234th 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, 41st Regional Meeting of the American Chemical Society, San Diego, CA, October 9-13, 2007.

“Electrochemical Oxidation of the [2.1.0] Framework; Application to Natural Product Synthesis”, Manuel M. Baizer Award Symposium on Organic Synthesis, 213th 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 59th Annual Meeting of the International Society of Electrochemistry, Seville, Spain, September 2008

“Rearrangements of Cation Radicals; application to total synthesis”, 59th Annual Meeting of the International Society of Electrochemistry, Seville, Spain, September 2008, keynote speaker

“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

Vita – R. D. Little
UCSB

2009-2010

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

“The Role of the Pseudopterosins 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), 27 September 2009

Upcoming talks

Texas State University in San Marcos, November 2009

ECS Meeting, Vancouver, BC, May 2010

ISEC, invited lecture, Nice, France, September 2010

Wesleyan University, Middletown, CT

Lehigh University, Bethlehem, PA