R. Daniel Little
Professor, Department of Chemistry and Biochemistry
University of California Santa Barbara (UCSB)

Email: little@chem.ucsb.edu Phone (campus): 805-893-3693
Web site: http://www.chem.ucsb.edu/~little_group/

And, senior investigator in the Center for Sustainable Use of Renewable Feedstocks (CenSURF) http://censurf.chem.ucsb.edu/. Participating faculty member in the PIRE-ECCI program (http://pire-ecci.ucsb.edu/). Mellichamp Academic Initiative Faculty Participant - Mellichamp Academic Initiative in Sustainability (http://sustech.ucsb.edu/).

Education

- Wisconsin State University, Superior, BS with honors in chemistry and mathematics; 1969
- University of South Dakota; NSF-URP programs, 1967 and 1968
- Argonne National Laboratory; spring semester with K.E. Wilzbach & L.A. Kaplan, 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
- Associate Professor, UCSB, 1981-86
- Assistant Professor, UCSB, 1975-81
- 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
- Member of Administrative Faculty of the UCSB College of Creative Studies, 1994-96

Professional memberships

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

Honors, awards, recognition

- 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
- Recognized as one of the ten best reviewers in 2012 for *Tetrahedron*, 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)
- NSF Undergraduate Research Program (NSF-URP), University of South Dakota (1967 and 1968)
- Owl and Serpent Award (1967), Wisconsin State University, Superior

Special service and recognition

- Member of the organizing committee for the 2017 Annual Meeting of the ISE in Providence Rhode Island
- Advisory board NSF (REESE Award) Empirical Research—Fostering Representational Competence with Virtual Models in Chemistry (October 2013-continuing)
- *ACS Invitational Conference on Graduate Education in Chemistry*, September 22-24, 2013, Atlanta, Georgia (invitee)
- *Member of the ACS Graduate Profile Project Advisory Board*, 2013/14 (invited)
- External reviewer to evaluate Chemistry at a sister campus of the UC System, 2010
- Scientific Advisory Board, World Congress of Catalytic Asymmetric Synthesis-2010, Beijing
- NIH study sections: Special Emphasis Panel, BCMB IGR, fellowship applications in Chemical & Bioanalytical Sciences, June 2007; Study Section member (Med Chem A; 1989-1993); Reviewers Reserve (1993-1997); ad hoc member of Med Chem A (Oct. 2001) as well as BNP and MCHA study sections
- Council of Chemical Research (CCR) representing UCSB as Department Chair, "Research for Sustainable Growth of the Chemical Enterprise", Baltimore, MD, September 25-28, 1999.
- NSF review panels, October 2008 and IGERT (1997)
- International Scientific Advisory Committee – International Symposium of Electroorganic Synthesis, 1994 (Kurashiki, Japan)
- Member of *ad hoc* Quiniquennial Committee Reviewing the UC Cancer Research Coordinating Committee (1994)
- 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
- 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, Organic Electrochemistry Session, August 1986.
- Member of the UC Cancer Research Coordinating Committee (CRCC; 1981-1985)

Professional service as a Reviewer

- *journals*: Journal of the American Chemical Society, Journal of Organic Chemistry, Angewandte Chemie, Accounts of Chemical Research, European Journal of Organic Chemistry, Chemistry - A European Journal, European Journal of Medicinal Chemistry, Chemistry – an Asian Journal, Tetrahedron, Tetrahedron Letters, Organic Letters, Comptes Rend, Bioorganic and Medicinal Chemistry Letters, Journal of Crystal Growth and Design, Electrochemistry Communications, Electrochimica Acta, Journal of the Electrochemical Society, Syn Lett, Synthesis, Acta Chem Scand, Heterocycles, J. Phys Chem., Letters in Organic Chemistry, Perkin Transactions, Science
- *funding agencies*: The University of Crete, Israel Science Foundation, National Science Foundation, NIH, Petroleum Research Foundation, Research Corporation, NSERC (Canada), UC-MEXUS-CONACYT

• **Editorial service**: 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*.

Service to the Department, Campus, and UC System

Since stepping down as chair in 2000, RDL served on a number of significant committees. He is, for example, a current member of the Program Review Panel (PRP). From 2008-2012 he served as an elected member of the Faculty Club Board. For several years, he has served as the faculty advisor to the UCSB campus group called Students Against Cancer. Additionally, he served on several successful faculty searches, as a member of search committee for the appointment of the Dean of MPLS, served at the pleasure of the Chancellor on the Advisory Committee on Overhead Rates, served as the Divisional Advisory Committee (DACC) to the Chair of the Academic Senate as well as the UCSB representative to the Assembly of the UC Academic Senate. In addition, he served as a member of the Privilege and Tenure Committee (P & T; 2002-2005) as well as the Charges Committee. He has also been a member of a panel put together by the Cancer Center of Santa Barbara to evaluate Special Research Awards for the Biomedical Science Committee. In 2010 he served as a member of an external review panel to review the Chemistry Department at one of the sister campuses in the UC system. During the fall of 2009, RDL served as a member of the review panel to consider research proposals submitted to the UC-MEXUS-CONACYT program. Nationally, he has served on panels for both the NIH and the NSF. He has served as the faculty advisor to UCSB Colleges Against Cancer (2007 – 2012), and is an elected member of the board of the UCSB Faculty Club.

Past service of note (partial list)

In addition to the service listed above, RDL previously served as a member and former chair of Committee on Committees (COC), as a member of PRP (1994-1995; and 2012-continuing), a member of the Committee on Effective Teaching and Instructional Support (CETIS), and as a member and chair of the Committee on Undergraduate Courses, among others. On numerous occasions he served as a member of the Baker Lecture Committee (Department) and the Plous Award Committee (campus). He served the department and its educational role in numerous ways, including as a member of dozens of committees for students advancing to candidacy, as the senior advisor to chemistry majors, the chair of the NMR policy committee, chair of the shops and storeroom committee, as a member of the faculty/staff relations committee, the recharge and rates committee, safety committee, and student awards and fellowships committee. In addition to extensive reviewing of manuscripts, he is a frequent reviewer of manuscripts and research proposals from all parts of the world including China, Crete, Israel, Canada, Europe, the US and Mexico.

Professional activities: selected list of seminars (the complete list appears later)

2015 – *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), 63rd 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", 59th Annual Meeting of the International Society of Electrochemistry, Seville, Spain, September 2008

Keynote lecture, 2nd 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, 40th Heyrovsky Discussion on Electrochemistry of Molecules with Multiple Redox Centers, Castle Trest, Czech Republic, June 10-14, 2007

Keynote lecture, 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

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

Merck-Frosst Distinguished Lecturer (16th annual), Merck-Frosst, Montreal Canada, 10/28/03; "Aspects of Electro- and TMM Diyl Chemistry" 2003

Keynote speaker, Festkolloquim 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^0 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

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.

Collaborative efforts – with …

Professor Cheng-Chu Zeng, Beijing University of Technology, Beijing, China
Professor Yongdong Liu, Beijing University of Technology, Beijing, China
Professor Bernardo Frontana-Uribe, UNAM and the *Institute for Green Chemistry*, Toluca, Mexico
Professor Siegfried Waldvogel, University of Mainz, Germany
Professor Oliver Reiser, Universität Regensburg, Germany
Professor Dean Tantillo, UC Davis
Members of the CenSURF team of PIs

Some of our current and ongoing research interests (http://www.chem.ucsb.edu/~little_group/ and http://censurf.chem.ucsb.edu/). See also my research summary, found in a separate document.

A topic of major interest focuses upon *mediated, electrocatalytic, electron transfer* processes leading to the formation of cation and anion radicals, and upon obtaining an understanding of the fundamental nature of these reactive intermediates, as well as the nature of their chemical transformations with the possible application of the chemistry to the formation of useful, interesting materials. Our knowledge in this area is proving useful for the establishment of useful "rules of thumb" for both electrochemistry and photocatalysis (see, for example *J. Org. Chem.* **2013**, *78*, 2104–2110).

RDL is a senior investigator of the National Science Foundation sponsored center, called "**CenSURF**" (Center for the Sustainable Use of Renewable Feedstocks; http://censurf.chem.ucsb.edu/). Here, we are integrating our experience in mediated electron transfer chemistry to tackle a variety of important issues dealing with lignin degradation. Ongoing collaborations with students and senior investigators at *UCSB, UCSD, UCD, and Washington University* facilitate progress within the Center.

In an effort to reduce cost, waste, and energy we are designing, synthesizing and investigating the redox properties of reusable, copolymer–polyelectrolyte frameworks in both oxidative as well as reductive processes. Other efforts to carry out *green electrochemistry* are being conducted in collaboration with Professor Bernardo Frontana-Uribe from *UNAM in Mexico City* and the Centro de Investigación en Química Sustentable (*CCIQS/Research Center for Sustainable Chemistry*) that is located in Toluca, and also with *Professor Cheng-chu Zeng of the Beijing University of Technology*.

As indicated above, a collaborative program between the Little-group and the research group of *Professor Zeng* has been established. While visiting UCSB during the summer of 2011, Professor Zeng developed a new class of redox mediators that form the basis for our continuing collaborative efforts involving green and sustainable science. Graduate student, Randi Gbur, successfully competed and was twice awarded a **PIRE-ECCI fellowship**. The PIRE-ECCI program (NSF Partnership for International Research and Education-Electron Chemistry and Catalysis at Interfaces) is an outstanding program that fosters scientific partnerships with Chinese scientists.

We continue our investigations of *diradicals* (aka **"diyls"**), particularly those related to trimethylenemethane (*TMM*). A recent area of interest centered upon a surprising discovery of the role played by *molecule-assisted homolysis* in the chemistry of bicyclic peroxides derived from the diyls (*J. Org. Chem.* **2012**, *77*, 2134-2141). Another interesting study of importance synthetically has uncovered a modular route to the diyl precursors that uses an olefin cross-metathesis reaction to stitch together two units whose structure can easily be varied to accommodate the structural needs of the target. Once assembled, a reaction cascade is initiated beginning with the in situ formation of an alkylidene carbene that undergoes intramolecular cycloaddition onto a pendant alkene. The resulting highly strained framework opens rapidly to reveal a TMM diyl that is intercepted immediately by a built-in trapping agent. This chemistry allows the facile access to the diradicals at room temperature and below, and provides a very simple means by which to access several frameworks that are common to natural products.

We frequently use **quantum 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. When we "get in over our heads", we frequently contact *Professor Dean Tantillo of UC Davis* to provide his excellent guidance and expertise.

Publications

#	Year	Title and Author(s)	Publisher	Category
1.	1972	Contrasting Photochemistry of Cyclopentenone and Cyclohexenone, H. E. Zimmerman and R. D. Little	*J. Chem. Soc., Chem. Commun.,* 698	Article
2.	1972	Evidence for Requirement of the Second π-Bond in the Di-π-Methane Rearrangement and Observation of Excited State l,4-Phenyl Migration. Mechanistic and Exploratory Organic Photochemistry. LXXII, H. E. Zimmerman and R. D. Little	*J. Amer. Chem. Soc.*, **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	*J. Amer. Chem. Soc.*, **96**, 4623	Article
4.	1974	A Novel Photochemical l,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	*J. Amer. Chem. Soc.*, **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	*J. Amer. Chem. Soc.*, **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	*J. Amer. Chem. Soc.*, **98**, 5725	Article
7.	1978	Frontier Orbital Control of Regiospecificity in Singlet Cycloadditions of 2-Methylenecyclopenta-l,3-Diyls, Roger Siemionko, Andrew Shaw, Genevieve O'Connell, R. D. Little, B. K. Carpenter, L. Shen and Jerome A. Berson	*Tetrahedron Lett.*, 3529	Article
8.	1978	A New, Mild Method for the Synthesis of Azo Compounds, R. D. Little and M. G. Venegas	*J. Org. Chem.*, **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	*J. Amer. Chem. Soc.*, **100**, 4607	Article
10.	1978	Equivalent Expressions for the Description of Several Pericyclic Reactions, R. D. Little	*J. Chem. Ed.*, **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	*Tetrahedron Lett*, 305	Article
12.	1979	Carbon-l3 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 Dihydrojasmone, 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 C_{10} 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 Desulfonylation. 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	l,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**, 928	Article
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 Diylophiles. 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 Alkylidenecyclopentane-1,3-Diyls. Peroxide Formation, R.D. Little, L. Losinski-Dang, M.G. Venegas and C. Merlic	*Tetrahedron Letters*, **24**, 4499	Article
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	Article
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**, 509	Article
32.	1983	Asymmetric Induction in Intramolecular 1,3-Diyl Trapping Reaction Through the Use of Methyl and 8-Phenylmethyl Esters,	*J. Org. Chem.*, **48**, 4487	Article

		R.D. Little and K. D. Moeller		
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	Article
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 l,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 l,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 l-Sterpurene, L. Moëns, Manuel M. Baizer, and Little, R. D.	*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.	*Recent Advances in Electroorganic Synthesis*, S. Torii, Ed.,	Article

		Baizer	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	Article
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153	2015	Reductive Coupling James H.P. Utley, Little, R. D., Merete Folmer Nielsen	Chapter 17 of *Organic Electrochemistry*, O. Hammerich and B. Speiser, Eds.; 5th edition, **2015**; CRC Press Taylor & Francis Group	chapter
154	2015	Electrosynthesis of Bioactive Materials Randi K. Gbur and Little, R. D.	Chapter 37 of *Organic Electrochemistry*, O. Hammerich and B. Speiser, Eds.; 5th edition, **2015**; CRC Press Taylor & Francis Group	chapter

155	2015	Aromatic C-H bond functionalization induced by electrochemically in situ generated tris(*p*-bromophenyl)aminium (TBPA) radical cation: cationic chain reactions of electron-rich aromatics with enamides Li, L.; Jiang, Y.; Zeng, C-C; Hu, L-M.; Tian, H-Y.; Lam, C. M.; Little, R. D.	*J. Org. Chem.* **2015**, *80(21)*, 11021-11030 DOI: 10.1021/acs.joc.5b02222	article
156	2015	Electrochemically catalyzed amino-oxygenation of alkenes：a *n*-Bu_4NI induced C-N followed by C-O bond formation cascade for the synthesis of indolines Liang, S.; Zeng, C-C.; Luo, X-G.; Ren, F-Z.; Tian, H-Y.; Sun, B-G.; Little, R.D.	*Green Chemistry*, **2015**, DOI: 10.1039/C5GC02626A	article
157	2015	Electrochemical Synthesis of Benzoxazoles Mediated by 2,3-Dichloro-5,6-dicyano-*p*-hydroquinone (DDH) as a Redox Catalyst, Kang,L.-S.; Xiao, H.-L.; Zeng, C.-C.; Hu, L. M.; Little, R. D.		article
158	2016	On the Reactivity of TEMPO in the Presence of Lewis Acids: Tuning the Selectivity by Using Scandium Triflate Lam, C. M.; Little, R. D.; Hayton, T. W.; Francke, R.		article

Patents & disclosures

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. 2004 – Jacobs, R. S.; Little, R. D. Method for the Synthesis of Soritin Compounds. U. S. Patent 7,074,938 B2.

3. 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).

4. 2007 – Jacobs, Moya, Day, Little, Hoarau. Disclosure and Record of Invention: "Pseudopterosins, Selective Adenosine Receptor Activators". UC Case No. 2007-426-1

5. 2008 – Little, R. D.; Jacobs, R. S.; Moya, C.; Tanis, V. Disclosure and Record of Invention: "New, Synthetic Anti-inflammatory Agents"

6. July 15, 2011 – Day, D. R.; Jabaiah, Suraya; Little, R. Daniel; Robert S. Jacobs Disclosure: "Cyclodextrin Formulation which Elicits Marked Effects on the Specific Activity of Pseudopterosins in Proliferative, Inflammatory, and Antibacterial Assays"

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.
- 192nd American Chemical Society Meeting, Symposium on Advances in Free Radical Chemistry, Anaheim, CA, September 10, 1986
- The 40th 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.
- 44th Meeting of the International Society of Electrochemistry, Berlin, September 5-10, 1993 (9/9)
- The 3rd International Symposium on Electroorganic Synthesis, Kurashiki, Japan, September 25, 1997.
- 199th Meeting of the Electrochemical Society, Washington, D.C., 25-29 March 2001

Seminars, keynote, plenary lectures

1972-73
- Presented paper, "Excited State Phenyl 1,4-Migration; Long Range Di-π-Rearrangements," H.E. Zimmerman and Little, R. D. , Paper No. 96, (Presented by R.D. Little), 164th 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 l, 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 (±)-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 Fur Organische Chemie, Universitat 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 l,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 l, 1985:
"6-Versus 4-Exo Trig Closure, Evidence for Hydrogen atom Abstraction in an Intramolecular l,3-Diyl Trapping Reaction", with O. Campopiano, and
"An Electronic Variant of the Intramolecular l,3-Diyl Trapping Reaction; Use of a Zero-Carbon Tether", with K. Moeller, May l, 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.

l987-88 • 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 Quadrone," 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^0 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 l3, 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 l4, 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 Electrogenerated 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 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.

22nd 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.

Festkolloquim 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 thyrsiferyl 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 penta-lenolactone 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 thyrsiferol 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 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

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.

Manuel M. Baizer Award Symposium on Organic Synthesis, "Electrochemical Oxidation of the [2.1.0] Framework; Application to Natural Product 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

Keynote speaker, "Rearrangements of Cation Radicals; application to total synthesis", 59th 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", 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), 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, 217th Meeting of the Electrochemical Society, Vancouver, BC, 25-30 April 2010, seminar on April 25, 2010

61st 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 Pseudopterosins 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, 52nd 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", Zeijiang 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, 63rd 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, Kleinwalser Tal, Austria, "Mediated Electron Transfer Processes – an Overview and Tutorial", 19 February 2013

Winter School Electrochemistry, Kleinwalser Tal, 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, 66th 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"