

STEVEN WORTH BALDWIN

Curriculum Vitae

Personal:

Place of Birth: Idaho Falls, Idaho

Addresses: 5209 Piney Hollow Court Department of Chemistry
Durham, NC 27705 Box 90346
(919) 490-6330 (home) 124 Science Drive
(919) 490-6330 (FAX) Duke University
steven.baldwin@duke.edu Durham, NC 27708-0346
919-660-1563
(919) 660-1605 (FAX)

Academic History:

1960 - 1964 Dartmouth College, AB, Chemistry

1964 - 1965 University of Michigan

1965 - 1969 California Institute of Technology, PhD; (Professor R. E. Ireland, advisor);
Dissertation: "Studies Directed toward the Total Synthesis of Germanicol"

1969 - 1970 Columbia University, National Institutes of Health Postdoctoral Fellow
(Professor R. Breslow, advisor)

Professional Experience:

1970 - 1976 Assistant Professor of Chemistry, Duke University

1976 - 1986 Associate Professor of Chemistry, Duke University

1978 - (Fall) Visiting Associate Professor of Chemistry, Tulane University

1985 - 1990 Director of Graduate Studies in Chemistry, Duke University

1986 - Present Professor of Chemistry, Duke University

1988 - 1992 Director, Master of Arts in Teaching Program, Duke University

1992 - (Spring) Visiting Professor of Chemistry, University of North Carolina

1994 - 1995 Director of Graduate Studies in Chemistry, Duke University

1995 - 1999 Chairman, Department of Chemistry, Duke University

1999 - 2001 Chairman, Arts & Sciences Council, Duke University

2008 - 2014 Director of Graduate Studies in Chemistry, Duke University

Professional Affiliations:

American Chemical Society
American Association for the Advancement of Science
American Association of University Professors
Sigma Xi

Significant Recent Professional Activities:

Member, Editorial Advisory Board,
Chemical & Engineering News (1996-1998)
Member, National Research Council Committee on Laboratory Design,
Construction, and Renovation (1997-1999)
Program Review Site Visitor, Committee on Professional Training
(American Chemical Society; 1998-present)
Member, Biomedical Sciences Study Section (BI-4),
National Institutes of Health
Member, *Ad Hoc* Review Study Section (AIDS),
National Cancer Institute
Member, *Ad Hoc* Review Study Section (Bio-organic Chemistry),
National Institutes of Health
Consultant, Burroughs-Wellcome Company
Chemical Development Laboratories
Member, SBIR Review Group
National Science Foundation
Member, Scientific Advisory Board and Project Consultant
Enzyme Technology Research Group, Inc.
Scientific Consultant/Expert Witness
ca., 15 pharmaceutical litigations; (1995-present; 2 ongoing)
Member, SBIR Review Group, Phase II Proposals
National Science Foundation (10/98)
Member, NSF REU Review Panel
National Science Foundation (11/00)
Member, Scientific Advisory Board
Synthematrix (2000-2006)
Legal Consultant, Pharmaceutical Patent Litigation
(1995 – present)
Founding Partner, PET Diagnostics, Inc. (PDI)
(2002)
Consultant, MedTox Diagnostics, Inc.
(2003 – 2007)

Reviewer for:

Journal of the American Chemical Society
The Journal of Organic Chemistry
Tetrahedron Letters

Tetrahedron
The National Science Foundation
Petroleum Research Fund
Research Corporation
North Carolina Biotechnology Center
National Institutes of Health
Royal Chemical Society

Pertinent University Activities/Awards (last twenty years, selected):

Best Professor/Duke University (2018)
Excellence in Advising Award (August, 2014)
Faculty Representative, Student Affairs Committee, Duke University Board of Trustees
Director, Master of Arts in Teaching Program
Academic Affairs Committee of Arts and Sciences Council
Director of Graduate Studies in Chemistry
Executive Committee of the Graduate Faculty
Programs and Fellowships Subcommittees of the Executive Committee of the Graduate Faculty
Greek Life Task Force (Co-Chair)
Science Education Advisory Committee
Duke University Committee on Teacher Preparation
Graduate School Recruiter Search Committee
COSEN (Carolinas-Ohio-Science-Education-Network) Lecturer and Research Mentor
University Research Council
Duke-Durham High School Committee
TIP Executive Director Search Committee
Program II Undergraduate Curriculum Committee, Chairman
Provost's Committee on Admissions and Financial Aid
Executive Advisory Committee, Duke University Training Program in Pharmacology
Provost's Summer Priorities Committee
Director, NSF Research Experiences for Undergraduates Program (1994 - 1999)
Chairman, Arts & Sciences Council
Arts and Sciences Curriculum Committee
Alcohol Policy Task Force
University Library Council
University Commencement Speaker Committee (Chair)
Honorary Degree Committee
Provost's Academic Schedule Task Force

Arts & Sciences Research Council
Committee on Facilities and Environment
Academic Council
Pre-major Adviser (current)
Undergraduate Conduct Board
University Schedule Committee (current)
Executive Committee of the Graduate Faculty (Chair)
Duke University Athletic Council

Publications:

- T. A. Spencer, M. D. Newton, and S. W. Baldwin, "Condensation of Diethyl Malonate with Methyl Vinyl Ketone," *J. Org. Chem.*, **29**, 787 (1964).
- T. A. Spencer, S. W. Baldwin, and K. K. Schmiegel, "Pyrolysis of 2-Acetoxy-2-(3-oxobutyl)-cyclohexane-1,3-dione," *J. Org. Chem.* **30**, 1294 (1965).
- R. Breslow and S. W. Baldwin, "Conversion of Cholesterol to 12-Ketocholesterol and to Δ^{14} - and $\Delta^{8,14}$ -Cholesterol by Remote Oxidation," *J. Am. Chem. Soc.*, **92**, 732 (1970).
- R. E. Ireland, S. W. Baldwin, D. J. Dawson, M. I. Dawson, J. E. Dolfini, and J. Newbould; W. S. Johnson, M. Brown, R. J. Crawford, P. F. Hudrlik, G. H. Rasmussen, and K. K. Schmiegel, "The Total Synthesis of an Unsymmetrical Pentacyclic Triterpene. *d,l*-Germanicol," *J. Am. Chem. Soc.*, **92**, 5743 (1970).
- R. E. Ireland, S. W. Baldwin, and S. C. Welch, "Experiments Directed toward the Total Synthesis of Terpenes, XVII. Development of Methods for the Synthesis of Pentacyclic Triterpenes Based on a Mechanistic Interpretation of the Stereochemical Outcome of the Friedel-Crafts Cyclialkylation Reaction," *J. Am. Chem. Soc.*, **94**, 2056 (1972).
- S. W. Baldwin and E. H. Page, Jr., "Intramolecular Ketene Cycloadditions in Unconstrained Systems," *J. Chem. Soc., Chem. Commun.*, 1337 (1972).
- R. Breslow, S.W. Baldwin, T. Flechtner, P. Kalicky, S. Liu, and W. Washburn, "Remote oxidation of Steroids by Photolysis of Attached Benzophenone Groups," *J. Am. Chem. Soc.*, **95**, 3251 (1973).
- S. W. Baldwin and J. C. Tomesch, "Stereoselective Synthesis of 3-*exo*-Substituted 2-*endo*-Acyl-5-Norbornene Derivatives," *J. Org. Chem.*, **39**, 2382 (1974).
- S. W. Baldwin, R. J. Doll, and S. A. Haut, "Selectivity in the Free Radical Reduction of Lactones with Trichlorosilane," *J. Org. Chem.*, **39**, 2470 (1974).
- S. W. Baldwin and J. C. Tomesch, "Stereospecific Synthesis of *d,l*-Cyclosativene. Alkyne Capture of an Homoallylic Carbonium Ion." *Tetrahedron Lett.*, 1055 (1975).

R. Breslow, Steven Baldwin, and Mitchell Winnik, "Remote Oxidation of Unactivated Steroid Methylene Groups," Japan Patent #802,588: (June 8, 1975).

S. W. Baldwin and R. E. Gawley, "Photoannulations with α -Formyl Ketones. Enol Specificity in the Reaction of Acyclic α -Formyl Ketones with Alkenes," *J. Org. Chem.* **40**, 1865 (1975).

S. W. Baldwin and J. C. Tomesch, "Model Studies for the Synthesis of Tetracyclic Sesquiterpenes," *Synthetic Commun.*, **5** (6), 441 (1975).

S. W. Baldwin and R. E. Gawley, "Photoannulations with α -Formyl Ketones. A Facile Synthesis of the *cis*-9,10-Dimethyldecalin Ring System of the Valerane Sesquiterpenes," *Tetrahedron Lett.*, 3969 (1975).

S. W. Baldwin and S. A. Haut, "Reductive Deoxygenation of Esters with Trichlorosilane," *J. Org. Chem.*, **40**, 3885 (1975).

S. W. Baldwin and T. H. O'Neil, "Benzylic Bromination with Bromotrichloromethane," *Synthetic Commun.*, **6** (2), 109 (1976).

S. W. Baldwin, P. W. Jeffs, and S. Natarajan, "Preparation of Norcocaine," *Synthetic Commun.*, **7** (1), 79 (1977).

S. W. Baldwin, M. T. Crimmins, and V. I. Cheek, "A Convenient Preparation of α -Methylene- δ -Valerolactones," *Synthesis*, 210 (1978).

S. W. Baldwin and N. G. Landmesser, "Benzyl and Allyl Diazoacetate in One Carbon Rings Expansions of Ketones," *Synthetic Commun.*, **8** (6), 413 (1978).

S. W. Baldwin and M. T. Crimmins, "A Facile Synthesis of δ -Valerolactones by Photoannulation," *Tetrahedron Lett.*, 4197 (1978).

S. W. Baldwin and J. M. Wilkinson, III, "Cyclohexenones by the Photoannulation of Alkenes with 2,2-Dimethyl-3(2H)-Furanone," *Tetrahedron Lett.*, 2657 (1979).

S. W. Baldwin and R. J. Doll, "Synthesis of the 2-Aza-7-oxatricyclo-[4.3.2.0^{4,8}]-undecane Nucleus of Some Gelsemium Alkaloids," *Tetrahedron Lett.*, 3275 (1979).

S. W. Baldwin and M. T. Crimmins, "Synthesis of the Alleged Genipic Acid by Photoannulation," *J. Am. Chem. Soc.*, **102**, 1198 (1980).

S. W. Baldwin and J. C. Tomesch, "Total Synthesis of *d,l*-Cyclosativene by Cationic Olefinic and Acetylenic Cyclizations," *J. Org. Chem.*, **45**, 1455 (1980).

S. W. Baldwin and J. M. Wilkinson, "Four Carbon Photochemical Annelation of Alkenes with 2,2,6-Trimethyl-1,3-Dioxolenone," *J. Am. Chem. Soc.*, **102**, 3634 (1980).

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.