VINCENT LINDSAY, Ph.D.

Associate Professor
Department of Chemistry
North Carolina State University
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PROFESSIONAL EXPERIENCE

Associate Professor — Aug 2023 – present
Department of Chemistry, North Carolina State University (Raleigh, NC)

Assistant Professor — Aug 2016 – Aug 2023
Department of Chemistry, North Carolina State University (Raleigh, NC)

FRQNT Postdoctoral Fellow — Jan 2013 – Mar 2016
Department of Chemistry, University of California, Berkeley (Berkeley, CA)
Supervisor: Prof. Richmond Sarpong
Research Project: *Modern Synthetic Strategies to Alkaloids and other N-Heterocycles*

EDUCATION

Ph.D. Chemistry, *Dean's honor list* — Jan 2013
Department of Chemistry, Université de Montréal (Montreal, QC, Canada)
Supervisor: Prof. André B. Charette
Thesis title: *Catalytic Asymmetric Synthesis of Di-acceptor Cyclopropanes using Chiral Rhodium(II) Complexes*

B.Sc. Chemistry, *Dean's honor list* — May 2007
Department of Chemistry, Université de Montréal (Montreal, QC, Canada)
Undergraduate Research Supervisor: Prof. André B. Charette
Research Project: *Copper(I)-Catalyzed Enantioselective Addition of Diorganozinc Reagents to Nitroalkenes*

SELECTED AWARDS AND DISTINCTIONS

Fellowships

Post-Doctoral Research Fellowship (B3, $60,000) — Jan 2013 – Dec 2014
Fonds de Recherche du Québec – Nature et Technologie (FRQNT)

J. Armand Bombardier Scholarship ($10,000) — Sept 2010
Université de Montréal, Faculté des Études Supérieures et Postdoctorales (FESP)

Post-Graduate Doctoral Scholarship (PGS D, $63,000) — Sept 2008 – Aug 2011
National Sciences and Engineering Research Council of Canada (NSERC)

Post-Graduate Scholar Master's Award ($30,000, *declined*) — Sept 2007– Aug 2009
Fonds de Recherche du Québec – Nature et Technologie (FRQNT)

Post-Graduate Scholar Master's Award (CGS M, $35,000) — Sept 2007 – Aug 2008
National Sciences and Engineering Research Council of Canada (NSERC)

Scholarship for direct transfer from the B.Sc. to the Ph.D. ($30,000) — Sept 2007– Aug 2010
Université de Montréal, Faculté des Études Supérieures et Postdoctorales (FESP)

Undergraduate Student Research Award (USRA Industrial, Merck Frosst Canada, $4,500) — May 2006 – Aug 2006
National Sciences and Engineering Research Council of Canada (NSERC)

Undergraduate Student Research Award (USRA Academic, Prof. André B. Charette, $4,500) — May 2005 – Aug 2005
National Sciences and Engineering Research Council of Canada (NSERC)

Distinctions

Invited Researcher — Nov 2025
Université d'Orléans, CNRS-ICOA Laboratories (Orléans, France)

Thieme Chemistry Journals Award — Jan 2019
Thieme Chemistry

Ph.D. Thesis on *Dean's Honor List* (Thesis judged 'excellent' by all committee members) — May 2013
Université de Montréal, Ph.D. Graduation

Best Oral Presentation Award (Green Chemistry and Catalysis Symposium, $100) Jun 2011
Canadian Society for Chemistry (CSC, National meeting)

Roger-Barré Award (Best Grades in Organic Chemistry for the B.Sc., $1,000) Oct 2007
Université de Montréal

Medal of the Canadian Society for Chemistry (Best GPA for the last year of B.Sc.) Oct 2007
Université de Montréal and *Canadian Society for Chemistry*

Ogilvy-Renault Award (Best Oral Presentation, $600) Oct 2005
Université de Sherbrooke Symposium for Undergraduate Students

B.Sc. Chemistry on *Dean's Honor List* (8 consecutive semesters) Sept 2003 – May 2007
Université de Montréal

RESEARCH CONTRIBUTIONS

Peer-Reviewed Publications (‡denotes equal contribution)

28. Muir,‡ J. E.; Sulc,‡ B. M.; Tran, D. T.; Poteat, C. M.; MacMillan, A. K.; Lindsay, V. N. G. *Org. Lett.* **2025**, *27*, 8332-8337. 'Stereospecific Synthesis of Cyclobutanones and Spirohexanones via Formal [3+1] Cycloaddition of Cyclopropanones with Sulfur Ylides.'

27. Jung, M.; Lindsay, V. N. G. *Org. Lett.* **2025**, *27*, 4196-4201. 'Concise Synthesis of Optically Active Cyclopropane β-Amino Acid Derivatives via Olefination of Cyclopropanone Surrogates'.

26. Muir, J. E.; Jung, M.; Lindsay, V. N. G. *Org. Synth.* **2025**, *102*, 185-202. 'Synthesis of 1-(phenylsulfonyl)bicyclo[1.1.0]butane from Methyl Phenyl Sulfone and Epichlorohydrin'.

25. Machín Rivera, R.; Ferrin, Z. R.; Lindsay, V. N. G. *Org. Lett.* **2024**, *26*, 4738-4743. 'Iron-Catalyzed Oxidative Rearrangement of Cyclopropanone Hemiaminals: General Access to Pyrroloindolones from Indoles'.

24. Jang, Y.; Deng, W.; Sprague, I. S.; Lindsay, V. N. G. *Org. Lett.* **2023**, *25*, 5389-5394. 'Divergent Synthesis of β-Fluoroamides via Silver-Catalyzed Oxidative Deconstruction of Cyclopropanone Hemiaminals'.

23. Jung, M.; Muir, J. E.; Lindsay, V. N. G. *Tetrahedron* **2023**, *134*, 133296. 'Expedient synthesis of spiro[3.3]heptan-1-ones via strain-relocating semipinacol rearrangements'.
*Featured in *Tetrahedron's 2022 Editors' Choice Collection*.

22. Machín Rivera,‡ R.; Burton,‡ N. R.; Call, L. D.; Tomat, M. A.; Lindsay, V. N. G. *Org. Lett.* **2022**, *24*, 4275-4280. 'Synthesis of Highly Congested Tertiary Alcohols via the [3,3] Radical Deconstruction of Breslow Intermediates'.

21. Jung, M.; Lindsay, V. N. G. *J. Am. Chem. Soc.* **2022**, *144*, 4764-4769. 'One-Pot Synthesis of Strain-Release Reagents from Methyl Sulfones'.

20. Penn, K. R.; Anders, E. J.; Lindsay, V. N. G. *Organometallics* **2021**, *40*, 3871-3875. 'Expedient Synthesis of Bis(imidazolium) Dichloride Salts and Bis(NHC) Complexes from Imidazoles Using DMSO as a Key Polar Additive'.

19. Poteat, C. M.; Lindsay, V. N. G. *Org. Lett.* **2021**, *23*, 6482-6487. 'Stereospecific Synthesis of Enantioenriched Alkylidenecyclobutanones via Formal Vinylidene Insertion into Cyclopropanone Equivalents'.

18. Jang,‡ Y.; Machín Rivera,‡ R.; Lindsay, V. N. G. *Synthesis* **2021**, *53*, 3909-3934. 'Synthesis and Applications of Cyclopropanones and Their Equivalents as Three-Carbon Building Blocks in Organic Synthesis'. (Review)

17. Jang, Y.; Lindsay, V. N. G. *Org. Lett.* **2020**, *22*, 8872-8876. 'Synthesis of Cyclopentenones with Reverse Pauson–Khand Regiocontrol via Ni-Catalyzed C–C Activation of Cyclopropanone'.

16. Machín Rivera, R.; Jang, Y.; Poteat, C. M.; Lindsay, V. N. G. *Org. Lett.* **2020**, *22*, 6510-6515. 'General Synthesis of Cyclopropanols via Organometallic Addition to 1-Sulfonylcyclopropanols as Cyclopropanone Precursors'.

15. Poteat,‡ C. M.; Jang,‡ Y.; Jung,‡ M.; Johnson, J. D.; Williams, R. G.; Lindsay, V. N. G. *Angew. Chem. Int. Ed.* **2020**, *59*, 18655-18661. 'Enantioselective Synthesis of Cyclopropanone Equivalents and Application to the Formation of Chiral β-Lactams'.

14. Zhu, J.; Lindsay, V. N. G. *ACS Catal.* **2019**, *9*, 6993-6998. 'Benzimidazolyl Palladium Complexes as Highly Active and General Bifunctional Catalysts in Sustainable Cross-Coupling Reactions'.

13. Poteat, C. M.; Lindsay, V. N. G. *Chem. Commun.* **2019**, *55*, 2912-2915. 'Controlled α-mono- and α,α-di-halogenation of alkyl sulfones using reagent–solvent halogen bonding'.

12. Lindsay,‡ V. N. G.; Murphy,‡ R. A.; Sarpong, R. *Chem. Commun.* **2017**, *53*, 10291-10294. 'Effect of protic additives in Cu-catalysed asymmetric Diels-Alder cycloadditions of doubly activated dienophiles: towards the synthesis of magellanine-type *Lycopodium* alkaloids'.

11. Johnson, R. E.; de Rond, T.; Lindsay, V. N. G.; Keasling, J. D.; Sarpong, R. *Org. Lett.* **2015**, *17*, 3474-3477. 'Synthesis of Cycloprodigiosin Identifies the Natural Isolate as a Scalemic Mixture'.
*Featured in *ACS Editors' Choice*.

10. Lindsay, V. N. G.; Viart, H. M.-F.; Sarpong, R. *J. Am. Chem. Soc.* **2015**, *137*, 8368-8371. 'Stereodivergent Intramolecular C(sp^3)–H Functionalization of Azavinyl Carbenes: Synthesis of Saturated Heterocycles and Fused *N*-Heterotricycles'.

9. Schultz,‡ E. E.; Lindsay,‡ V. N. G.; Sarpong, R. *Angew. Chem. Int. Ed.* **2014**, *53*, 9904-9908. 'Expedient Synthesis of Fused Azepine Derivatives using a Sequential Rhodium(II)-Catalyzed Cyclopropanation/1-Aza-Cope Rearrangement of Dienyltriazoles'.

8. Lindsay,‡ V. N. G.; Fiset,‡ D.; Gritsch, P. J.; Azzi, S.; Charette, A. B. *J. Am. Chem. Soc.* **2013**, *135*, 1463-1470. 'Stereoselective Rh_2(*S*-IBAZ)$_4$-Catalyzed Cyclopropanation of Alkenes, Alkynes and Allenes: Asymmetric Synthesis of Diacceptor Cyclopropylphosphonates and Alkylidenecyclopropanes'.

7. Lindsay, V. N. G.; Charette, A. B. *ACS Catal.* **2012**, *2*, 1221-1225. 'Design and Synthesis of Chiral Heteroleptic Rhodium(II) Carboxylate Catalysts: Experimental Investigation of Halogen Bond Rigidification Effects in Asymmetric Cyclopropanation'.

6. Moreau, B.; Alberico, D.; Lindsay, V. N. G.; Charette, A. B. *Tetrahedron* **2012**, *68*, 3487-3496. 'Catalytic Asymmetric Synthesis of Nitrocyclopropane Carboxylates'.

5. Lindsay, V. N. G.; Nicolas, C.; Charette, A. B. *J. Am. Chem. Soc.* **2011**, *133*, 8972-8981. 'Asymmetric Rh(II)-Catalyzed Cyclopropanation of Alkenes with Diacceptor Diazo Compounds: the *p*-Methoxyphenyl Ketone as a General Stereoselectivity Controlling Group'.

4. Marcoux, D.; Lindsay, V. N. G.; Charette, A. B. *Chem. Commun.* **2010**, *46*, 910-912. 'Use of achiral additives to increase the stereoselectivity in Rh(II)-catalyzed cyclopropanations'.

3. Lindsay, V. N. G.; Lin, W.; Charette, A. B. *J. Am. Chem. Soc.* **2009**, *131*, 16383-16385. 'Experimental Evidence for the All-Up Reactive Conformation of Chiral Rhodium(II) Carboxylate Catalysts: Enantioselective Synthesis of *cis*-Cyclopropane α-Amino Acids'.
Highlighted in Synfacts:* Lindsay, V. N. G.; Lin, W.; Charette, A. B. *Synfacts* **2010, 0198.

2. Charette, A. B.; Côté, A.; Desrosiers, J.-N.; Bonnaventure, I.; Lindsay, V. N. G.; Lauzon, C.; Tannous, J.; Boezio, A. A. *Pure Appl. Chem.* **2008**, *80*, 881-890. 'New methods in asymmetric catalysis based on new hemi-labile bidentate ligands'.

1. Côté, A.; Lindsay, V. N. G.; Charette, A. B. *Org. Lett.* **2007**, *9*, 85-87. 'Application of the Chiral Bis(phosphine) Monoxide Ligand to Catalytic Enantioselective Addition of Dialkylzinc Reagents to β-Nitroalkenes'.
Highlighted in Synfacts:* Côté, A.; Lindsay, V. N. G.; Charette, A. B. *Synfacts* **2007, 0411.

Book Chapters

4. Lindsay, V. N. G. 'Rhodium(II)-Catalyzed Cyclopropanation' (Chapter 15) in *Rhodium Catalysis in Organic Synthesis: Methods and Reactions*; Wiley-VCH; 2018; pp.433-448 (Editor: Ken Tanaka).

3. Charette, A. B.; Lindsay, V. N. G. 'Stereoselective Formation of Amines by Nucleophilic Addition to Azomethine Derivatives' in *Stereoselective Formation of Amines*.; *Top. Curr. Chem.* **2014**, *343*, 33-74. (Springer, Editors: Wei Li and Xumu Zhang).

2. Lindsay, V. N. G.; Charette, A. B. 'Nucleophilic Addition of Non-Stabilized Carbanions to Imines and Imine Derivatives' (Chapter 1.11) in *Comprehensive Organic Synthesis (2nd Edition, Vol. 1)*, Oxford: Elsevier Science Ltd.; 2014, pp. 365-394 (Editors: Gary A. Molander and Paul Knochel).

1. Roy, M.-N.; Lindsay, V. N. G.; Charette, A. B. 'Cyclopropanation Reactions' (Chapter 1.14) in *Stereoselective Synthesis: Stereoselective Reactions of Carbon-Carbon Double Bonds*; Georg Thieme Verlag KG; New York, 2011; pp 731-817 (Editor: Johannes de Vries).

Other Published Contributions

10. Lindsay, V. N. G. '1-(Phenylsulfonyl)cyclopropanol'. *Encyclopedia of Reagents for Organic Synthesis*, **2025**. A. B. Charette, D. Crich, R. A. Shenvi, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN02563).
9. Lindsay, V. N. G. 'Methyl Phenyl Sulfone' (Update). *Encyclopedia of Reagents for Organic Synthesis*, **2023**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RM232.pub2).
8. Lindsay, V. N. G. 'Dirhodium(II) Tetrakis[*R*-2-oxaazetidine-4(*S*)-carboxylate]' (Update). *Encyclopedia of Reagents for Organic Synthesis*, **2017**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN00607.pub2).
7. Lindsay, V. N. G. 'Methyl *α*-diazo-4-methoxy-*β*-oxobenzenepropanoate'. *Encyclopedia of Reagents for Organic Synthesis*, **2012**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN01540).
6. Lindsay, V. N. G. '*α*-Diazo-4-methoxy-*β*-oxobenzenepropanenitrile'. *Encyclopedia of Reagents for Organic Synthesis*, **2012**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN01541).
5. Lindsay, V. N. G. '2-Diazo-1-(4-methoxyphenyl)-2-nitroethanone'. *Encyclopedia of Reagents for Organic Synthesis*, **2012**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN01542).
4. Lindsay, V. N. G. '2-Azido-1,3-dimethylimidazolinium Chloride'. *Encyclopedia of Reagents for Organic Synthesis*, **2011**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN01465).
3. Lindsay, V. N. G. '1-Nitropropane' (Update). *Encyclopedia of Reagents for Organic Synthesis*, **2011**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN051).
2. Lindsay, V. N. G. 'Nitromethane' (Update). *Encyclopedia of Reagents for Organic Synthesis*, **2011**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN041).
1. Lindsay, V. N. G. 'Dirhodium(II) Tetrakis[*N*-tetrachlorophthaloyl-(*S*)-*tert*-leucinate]'. *Encyclopedia of Reagents for Organic Synthesis*, **2010**. A. B. Charette, D. Crich, P. L. Fuchs, G. A. Molander (Eds); John Wiley & Sons Ltd.: Chichester, 2nd Ed. (I.D.: RN01265).

Seminars and Oral Presentations (presenter is underlined)

70. *Department of Chemistry, Vanderbilt University* (Nashville, TN, USA, January 15, 2026). Lindsay, V. N. G. 'Synthesis and Application of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)
69. *The International Chemical Congress of Pacific Basin Societies* (Pacifichem, Honolulu, Hawaii, USA, December 15-20, 2025). Lindsay, V. N. G. 'Strain-Relocating Rearrangements of Cyclopropanone Equivalents for the Elaboration of Rigid Spiro Compounds'. (Contributed)
68. *Département de Chimie, Université Paris-Saclay & CNRS - Institut de Chimie des Substances Naturelles (ICSN)* (Gif-sur-Yvette, France, November 26, 2025). Lindsay, V. N. G. 'Synthesis and Application of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)
67. *Département de Chimie, Université d'Orléans & CNRS - Institut de Chimie Organique et Analytique (ICOA)* (Orléans, France, November 20, 2025). Lindsay, V. N. G. 'Synthesis and Application of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)
66. *ACS Spring 2025 National Meeting & Exposition* (San Diego, CA, USA, March 23-27, 2025). Sprague, I. S.; Lindsay, V. N. G. 'Rapid One-pot Synthesis of Quinolizinium Scaffolds via Formal Cycloaddition between Stabilized Azinium Ylides and Cyclopropanones'. (Contributed)
65. *ACS Spring 2025 National Meeting & Exposition* (San Diego, CA, USA, March 23-27, 2025). Ferrin, Z. R.; Lindsay, V. N. G. 'Expedient Synthesis of Tetrahydrobenzazepinones via Formal [1,5] Rearrangement of Cyclopropanone Hemiaminals'. (Contributed)

64. *Department of Chemistry & Biochemistry, University of North Carolina Wilmington* (Wilmington, NC, USA, September 27, 2024). Lindsay, V. N. G. 'Synthesis and Application of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

63. *Telluride Science Research Center Workshop: Accelerating Reaction Discovery* (Telluride, CO, USA, July 28-August 1, 2024). Lindsay, V. N. G. 'Synthesis and Application of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

62. *Rising Stars in Organic Synthesis, Session 3* (Thieme Cheminar, Virtual, April 24, 2024). Lindsay, V. N. G. 'Sulfonylcyclopropanols as Modular Cyclopropanone Equivalents'. (Invited, DOI: 10.52843/cassyni.nknztt)

61. *The Florida Heterocyclic and Synthetic Chemistry Conference 2024* (FloHet, Gainesville, FL, USA, March 10-13, 2024). Lindsay, V. N. G. 'Closing the Ring with Cyclopropanones as 3-Carbon Linchpins: Synthesis of Fused Indoles, Tetrahydrobenzazepinones and Quinolizinium Salts'. (Invited)

60. *Department of Chemistry, University of Toronto* (Toronto, ON, Canada, February 27, 2024). Lindsay, V. N. G. 'Synthesis and Application of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

59. *4th Workshop on Synthetic Organic Chemistry for Young Investigators, Sponsored by Organic Syntheses, Inc.* (Steamboat Springs, CO, USA, August 8-11, 2023). Lindsay, V. N. G. (Invited, Chalk talk)

58. *Department of Chemistry & Biochemistry, Texas Tech University* (Virtual, February 27, 2023). Lindsay, V. N. G. 'Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

57. *Department of Chemistry, East Tennessee State University* (Virtual, February 3, 2023). Lindsay, V. N. G. 'Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

56. *2nd Winter In-Person Organic Symposium* (Honolulu, HI, USA, December 19-22, 2022). Lindsay, V. N. G. 'Reactivity of Sulfonylcyclopropanols as Precursors of Amide Homoenolates for the Synthesis of Fused Heterocycles'. (Invited)

55. *Department of Chemistry, North Carolina State University* (Raleigh, NC, USA, September 16, 2022). Lindsay, V. N. G. 'Synthetic Applications of Modular Cyclopropanone Equivalents and Development of pNHC as a New Bifunctional Catalysis Platform'. (Invited, Tenure Talk)

54. *Department of Chemistry, Clemson University* (Clemson, SC, USA, September 8, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

53. *28th International Society of Heterocyclic Chemistry Congress* (Short talk, Goleta, CA, USA, August 28 - September 2, 2022). Lindsay, V. N. G. 'Reactivity of Sulfonylcyclopropanols as Precursors of Amide Homoenolates for the Synthesis of Fused Heterocycles'. (Invited)

52. *NSF Center for Selective C–H Functionalization: Alumni Symposium* (Sunset meeting, Atlanta, GA, USA, July 30, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

51. *Research School of Chemistry, The Australian National University* (Canberra, ACT, Australia, May 2, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

50. *Department of Chemistry, New York University* (New York, NY, USA, April 12, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

49. *Schulich Faculty of Chemistry, Technion – Israel Institute of Technology* (Virtual, April 4, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

48. *Department of Chemistry and Biochemistry, University of California, Los Angeles* (Los Angeles, CA, USA, March 31, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

47. *Department of Chemistry, The Scripps Research Institute* (La Jolla, CA, USA, March 25, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

46. *ACS Spring 2022 National Meeting & Exposition* (San Diego, CA, USA, March 20-24, 2022). Penn, K. R.; Zhu, J.; You, G.; Lindsay, V. N. G. 'Development of Highly Active Bifunctional (benz)imidazolyl-Palladium Catalysts for Application in Sustainable Cross-Coupling Reactions'. (Contributed)

45. *ACS Spring 2022 National Meeting & Exposition* (San Diego, CA, USA, March 20-24, 2022). Machín Rivera, R.; Lindsay, V. N. G. 'General Synthesis of Cyclopropanols via Organometallic Addition to Cyclopropanone Equivalents: Application to the Formation of Enantioenriched Alkylidenecyclobutanones'. (Contributed)

44. *ACS Spring 2022 National Meeting & Exposition* (San Diego, CA, USA, March 20-24, 2022). Jung, M.; Lindsay, V. N. G. 'Stereospecific Synthesis of Cyclopropanone Equivalents and Application to Alkylidenecyclopropanes and β-Amino Acid derivatives'. (Contributed)

43. *ACS Spring 2022 National Meeting & Exposition* (San Diego, CA, USA, March 20-24, 2022). Lindsay, V. N. G. 'Synthesis and Evaluation of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Contributed)

42. *The Florida Heterocyclic and Synthetic Chemistry Conference 2022* (FloHet, Gainesville, FL, USA, March 6-10, 2022). Lindsay, V. N. G. 'Reactivity of Sulfonylcyclopropanols as Precursors of Amide Homoenolates for the Synthesis of Fused Heterocycles'. (Invited)

41. *Department of Chemistry, Rice University* (Houston, TX, USA, February 23, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

40. *Department of Chemistry, University of Delaware* (Virtual, February 16, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

39. *Department of Chemistry, University of Virginia* (Charlottesville, VA, USA, February 11, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

38. *Department of Chemistry, Duke University* (Virtual, January 25, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

37. *Department of Chemistry, University of Florida* (Gainesville, FL, USA, January 20, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

36. *College of Chemistry, University of California, Berkeley* (Virtual, January 11, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

35. *The International Chemical Congress of Pacific Basin Societies* (Pacifichem, Virtual, December 15-20, 2021). Lindsay, V. N. G. 'Enantioselective Synthesis and Reactivity of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Contributed)

34. *Department of Chemistry, University of Missouri* (Columbia, MO, USA, December 3, 2021). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

33. *Department of Chemistry, University of Georgia* (Athens, GA, USA, November 18, 2021). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'. (Invited)

32. *Department of Chemistry, Marshall University* (Virtual, October 26, 2021). Lindsay, V. N. G. 'Enantioselective Synthesis of Modular Cyclopropanone Equivalents and Applications as Highly Strained Building Blocks'. (Invited)

31. *ACS Fall 2021 National Meeting & Exposition*, *Young Academic Investigator Symposium* (Virtual presentation, Atlanta, GA, USA, August 22-26, 2021). Lindsay, V. N. G. 'Enantioselective synthesis and applications of sulfonylcyclopropanols as modular cyclopropanone and homoenolate equivalents'. (Invited)

30. *CCHF Virtual Symposium: Alumni Edition* (Virtual, May 11, 2021). Lindsay, V. N. G. 'Enantioselective Synthesis of Modular Cyclopropanone Equivalents and Applications as Highly Strained Building Blocks'. (Invited)

29. *ACS Spring 2021 National Meeting & Exposition* (Virtual presentation, April 15, 2021). Jung, M.; Lindsay, V. N. G. 'Enantioselective Synthesis of Cyclopropanone Equivalents and Application to Alkylidenecyclopropanes and β-Amino Acid derivatives'. (Contributed)

28. *ACS Spring 2021 National Meeting & Exposition* (Virtual presentation, April 15, 2021). Penn, K. R.; Lindsay, V. N. G. 'Simple and Expedient Synthesis of Bis(azolium)dichloride Salts from Dichloroalkanes and Imidazoles'. (Contributed)

27. *Department of Chemistry, West Virginia University* (Virtual, March 10, 2021). Lindsay, V. N. G. 'Enantioselective Synthesis of Modular Cyclopropanone Equivalents and Applications as Highly Strained Building Blocks'. (Invited)

26. *Department of Chemistry, Howard University* (Virtual, February 26, 2021). Lindsay, V. N. G. 'Synthesis and Application of Sulfonylcyclopropanols as Modular Cyclopropanone Equivalents'. (Invited)

25. *Department of Chemistry and Biochemistry, Auburn University* (Virtual, February 19, 2021). Lindsay, V. N. G. 'Enantioselective Synthesis of Modular Cyclopropanone Equivalents and Applications as Highly Strained Building Blocks'. (Invited)

24. *11th Annual Symposium of the FRQNT Center for Green Chemistry and Catalysis* (Virtual, January 8, 2021). Lindsay, V. N. G. 'Development of pNHC as a New Bifunctional Catalysis Platform and Synthetic Applications of Modular Cyclopropanone Equivalents'. (Invited, plenary speaker)

23. *Department of Chemistry, University of North Carolina at Chapel Hill* (Virtual, November 6, 2020). Lindsay, V. N. G. 'Enantioselective Synthesis of Modular Cyclopropanone Equivalents and Applications as Highly Strained Building Blocks'. (Invited)

22. *ACS Fall 2020 National Meeting & Exposition* (Virtual presentation, August 17-20, 2020). Lindsay, V. N. G. 'Enantioselective synthesis of cyclopropanone equivalents and its application for the production of chiral β-lactams by formal [3+1] cycloaddition'. (Contributed)

21. *ACS Fall 2020 National Meeting & Exposition* (Virtual presentation, August 17-20, 2020). Machín Rivera, R.; Lindsay, V. N. G. 'General Synthesis of Cyclopropanols via Organometallic Addition to 1-Sulfonylcyclopropanol as Cyclopropanone Precursors'. (Contributed)

20. *ACS Fall 2020 National Meeting & Exposition* (Virtual presentation, August 17-20, 2020). Poteat, C. M.; Lindsay, V. N. G. 'Synthesis of β-Lactams and Cyclobutanones via Formal [3+1] Cycloaddition of Chiral Cyclopropanone Equivalents'. (Contributed)

19. *2020 Sci-athon* (UNC-Chapel Hill (Virtual), NC, USA, May 13, 2020). Lindsay, V. N. G. 'Benzimidazolyl-metal complexes as simple bifunctional templates in sustainable catalysis'. (Invited)

18. *Florida Heterocyclic Conference 2020* (FloHet, Gainesville, FL, USA, March 1-4, 2020). Lindsay, V. N. G. 'Asymmetric Synthesis of Cyclopropanone Equivalents and Application as Substrates in Formal Cycloadditions'. (Invited)

17. *Southeastern Regional Meeting of the American Chemical Society* (Savannah, GA, USA, October 20-23, 2019). Lindsay, V. N. G. 'Benzimidazolyl-metal complexes as simple bifunctional templates in sustainable catalysis'. (Invited)

16. *ACS Fall 2019 National Meeting & Exposition* (San Diego, CA, USA, August 25-29, 2019). Lindsay, V. N. G.; Zhu, J. 'Bifunctional Palladium Complexes Bearing Masked Protic NHC Ligands as Highly Active Catalysts for Sustainable Cross-Coupling Reactions'. (Contributed)

15. *ACS Fall 2019 National Meeting & Exposition* (San Diego, CA, USA, August 25-29, 2019). Poteat, C. M.; Lindsay, V. N. G. 'Synthesis of β-Lactams via Metal- Catalyzed Formal [3+1] Cycloaddition of Cyclopropanones'. (Contributed)

14. *Telluride Science Research Center Workshop: The Future of C–H Functionalization* (Telluride, CO, USA, July 29-August 2, 2019). Lindsay, V. N. G. 'Deconstruction of Cyclopropanone Equivalents Enables the C–H Functionalization of Heterocycles'. (Invited)

13. *ACS Spring 2019 National Meeting & Exposition* (Orlando, FL, USA, March 31-April 4, 2019). Poteat, C. M.; Lindsay, V. N. G. 'Controlled α-Halogenation of Alkyl Sulfones using Reagent-Solvent Halogen Bonding'. (Contributed)

12. *Southeastern Regional Meeting of the American Chemical Society* (Augusta, GA, USA, October 31-November 3, 2018). Poteat, C. M.; Lindsay, V. N. G. 'Controlled α-Halogenation of Sulfones'. (Contributed)

11. *The International Chemical Congress of Pacific Basin Societies* (Pacifichem, Honolulu, Hawaii, USA, December 15-20, 2015). Lindsay, V. N. G.; Murphy, R. A.; Sarpong, R. 'Synthesis of Magellaninone-type *Lycopodium* Alkaloids using a Pyridine Functionalization / Reduction Approach'. (Contributed)

10. *98th Canadian Chemistry Conference and Exhibition* (CSC, Ottawa, ON, Canada, June 13-17, 2015). Lindsay, V. N. G.; Murphy, R. A.; Sarpong, R. 'Synthesis of Magellaninone-type *Lycopodium* Alkaloids using a Pyridine Functionalization / Reduction Approach'. (Contributed)

9. *ACS Fall 2014 National Meeting & Exposition* (San Francisco, CA, USA, August 10-14, 2014). Lindsay, V. N. G.; Schultz, E. E.; Sarpong, R. 'Expedient Synthesis of Fused Azepine Derivatives using a Sequential Rhodium(II)-Catalyzed Cyclopropanation/1-Aza-Cope Rearrangement of Dienyltriazoles'. (Contributed)

8. *97th Canadian Chemistry Conference and Exhibition* (CSC, Vancouver, BC, Canada, June 2-6, 2014). Lindsay, V. N. G.; Schultz, E. E.; Sarpong, R. 'Expedient Synthesis of Fused Azepine Derivatives using a Sequential Rhodium(II)-Catalyzed Cyclopropanation/1-Aza-Cope Rearrangement of Dienyltriazoles'. (Contributed)

7. *94th Canadian Chemistry Conference and Exhibition* (CSC, Montreal, QC, Canada, June 5-9, 2011). Lindsay, V. N. G.; Charette, A. B. 'Design and Mechanistic Study of Chiral Rh(II)-Carboxylate Catalysts for Enantioselective Cyclopropanation Reactions with Diacceptor Diazo Compounds'. (Contributed)
   **1st prize for Best Oral Presentation, Green Chemistry & Catalysis Symposium*

6. *The International Chemical Congress of Pacific Basin Societies* (Pacifichem, Honolulu, Hawaii, USA, December 15-20, 2010). Lindsay, V. N. G.; Charette, A. B. 'Enantioselective Rhodium(II)-Catalyzed Cyclopropanation of Alkenes with α-EWG-Diazoacetophenones: PMP-ketones as Stereoselectivity Controllers'. (Contributed)

5. *ACS Fall 2010 National Meeting & Exposition* (Boston, MA, USA, August 22-26, 2010). Lindsay, V. N. G.; Charette, A. B. 'Enantioselective Rhodium(II)-Catalyzed Cyclopropanation of Alkenes with α-EWG-Diazoacetophenones: PMP-ketones as Stereoselectivity Controllers'. (Contributed)

4. *78e Congrès de l'ACFAS* (Montreal, QC, Canada, May 11-12, 2010). Lindsay, V. N. G.; Lin, W.; Charette, A. B. 'Cyclopropanation énantiosélective d'alcènes en présence de diazoacetophenones α-substituées par catalyse au rhodium(II) : étude mécanistique du contrôle de la stéréosélectivité'. (Contributed)

3. *77e Congrès de l'ACFAS* (Ottawa, ON, Canada, May 13-14, 2009). Lindsay, V. N. G.; Lin, W.; Charette, A. B. 'Synthèse stéréosélective de dérivés cyclopropaniques acides aminés *cis* via une cyclopropanation énantiosélective d'alcènes à l'aide d'α-diazo-α-nitrocétones'. (Contributed)

2. *74e Congrès de l'ACFAS* (Montréal, QC, Canada, May 15-19, 2006). Côté, A.; Lindsay, V. N. G.; Charette, A. B. 'Addition catalytique sur des nitroalcènes utilisant une bis-phosphine monoxydée chirale comme ligand'. (Contributed)

1. *17e Colloque annuel de chimie des étudiants au baccalauréat de l'Université de Sherbrooke* (Sherbrooke, QC, Canada, October 28, 2005). Lindsay, V. N. G.; Côté, A.; Charette, A. B. 'Addition énantiosélective d'organozinciques sur des nitroalcènes catalysée par le cuivre (I)'. (Contributed)
   **1st prize for Best Oral Presentation, Ogilvy-Renault Award*

Poster Presentations (presenter is underlined)

62. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 7, 2025). Tran, D. T.; Lindsay, V. N. G. 'Synthesis and Evaluation of Environment-Triggered Cyclopropanone Precursors'.

61. *Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, July 26, 2024). Rajbhandary, A.; Huguenin, M. E.; Lindsay, V. N. G. 'Investigation of Novel α-Oxy Cyclopropyl Radical Generation for Use in Cross-Coupling Reactions'.

60. *Gordon Research Conference – Stereochemistry* (Newport, RI, USA, July 21-26, 2024). Lindsay, V. N. G. 'Stereoselective Synthesis of Modular Cyclopropanone Equivalents: Application to the Formation of Highly Strained Spiro Compounds'.

59. *Annual North Carolina State University Spring Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, April 24, 2024). Dunlap, K. F.; Hobbs, J. H.; Lindsay, V. N. G. 'Rearrangement of Unique Bis(cyclopropyl) Ethers Derived From Cyclopropanones into Biologically Relevant Spirocyclic Derivatives'.

58. *Annual North Carolina State University Spring Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, April 24, 2024). MacMillan, A. K.; Muir, J. E.; Sulc, B. M.; Lindsay, V. N. G. 'Synthesis of Spiro[2.3]hexan-4-ones Using Diphenylcyclopropyl Sulfonium Salts and 1-Sulfonylcyclopropanols as Cyclopropanone Equivalents'.

57. *The Florida Heterocyclic and Synthetic Chemistry Conference 2024* (FloHet, Gainesville, FL, USA, March 10-13, 2024). Ferrin, Z. R.; Lindsay, V. N. G. 'Expedient Synthesis of Tetrahydrobenzazepinones via Formal [1,5]-Rearrangement of Cyclopropanone Hemiaminals'.

56. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 8, 2024). Hobbs, J. H.; Lindsay, V. N. G. 'Modular Synthesis of 1-Azetines via Ring-Expansion of Cyclopropanones'.

55. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 8, 2024). Huguenin, M. E.; Lindsay, V. N. G. 'Development of Novel Cyclopropanone Reactivity via Addition of Weak Nitrogenous Nucleophiles'.

54. *Southeastern Regional Meeting of the American Chemical Society* (Durham, NC, USA, October 25-28, 2023). Ferrin, Z. R.; Lindsay, V. N. G. 'Expedient Synthesis of Tetrahydrobenzazepinones via Formal [1,5]-Rearrangement of Cyclopropanone Hemiaminals'.

53. *Southeastern Regional Meeting of the American Chemical Society* (Durham, NC, USA, October 25-28, 2023). Muir, J. E.; Poteat, C. M.; Jung, M.; Lindsay, V. N. G. 'Stereospecific synthesis of cyclobutanone derivatives via 1,2-rearrangements of cyclopropanone adducts'.

52. *Southeastern Regional Meeting of the American Chemical Society* (Durham, NC, USA, October 25-28, 2023). Sprague, I. S.; Shah, M.; Deng, W.; Lindsay, V. N. G. 'Facile Synthesis of Benzyl Fluorides via Silver-Catalyzed C–C Bond Fluorination of Unstrained Tertiary Alcohols'.

51. *Southeastern Regional Meeting of the American Chemical Society* (Durham, NC, USA, October 25-28, 2023). Sulc, B. M.; Muir, J. E.; Lindsay, V. N. G. 'Synthesis of spiro[2.3]hexan-4-ones from stable cyclopropanone equivalents'.

50. *50th Annual Meeting of The National Organization for the Professional Advancement of Black Chemists and Chemical Engineers* (NOBCChE, New Orleans, LA, USA, September 11-14, 2023). Muir, J. E.; Poteat, C. M.; Jung, M.; Lindsay, V. N. G. 'Stereospecific Synthesis of Cyclobutanone Derivatives via 1,2-Rearrangements of Cyclopropanone Adducts'.

49. *Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, July 28, 2023). Shub, E. J.; Ferrin, Z. R.; Lindsay, V. N. G. 'Expedient Synthesis of Dihydroquinolones from Anilines using 1-Sulfonylcyclopropanols as Cyclopropanone Equivalents'.

48. *Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, July 28, 2023). Oudeh, A. I.; Muir, J. E.; Lindsay, V. N. G. 'Synthesis of 2,3-disubstituted cyclobutanones from cyclopropanone equivalents'.

47. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 10, 2023). Sulc, B. M.; Lindsay, V. N. G. 'Sulfonylcyclopropanes as Precursors of Umpoled Cyclopropanones and Cyclopropyl Boronates'.

46. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 10, 2023). Ferrin, Z. R.; Lindsay, V. N. G. 'Expedient Synthesis of Tetrahydrobenzazepinones via Formal [1,5]-Rearrangement of Cyclopropanone Hemiaminals'.

45. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 10, 2023). Muir, J. E.; Poteat, C. M.; Jung, M.; Lindsay, V. N. G. 'Stereospecific Synthesis of Cyclobutanone Derivatives via 1,2-Rearrangements of Cyclopropanone Adducts'.

44. *2nd Winter In-Person Organic Symposium* (Honolulu, HI, USA, December 19-22, 2022). Jung, M.; Lindsay, V. N. G. 'Synthesis and Applications of 1-Sulfonylcyclopropanols as Modular Cyclopropanone Equivalents'.

43. *Gordon Research Conference – Stereochemistry* (Newport, RI, USA, July 24-29, 2022). Lindsay, V. N. G. 'Stereoselective Synthesis and Applications of Sulfonylcyclopropanols as Modular Cyclopropanone and Homoenolate Equivalents'.

42. *Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, August 1, 2022). Do, A.; Jung, M.; Lindsay, V. N. G. 'Effect of the acidity of 1-sulfonylcyclopropanols on their equilibrium to cyclopropanones and computational study of their trapping reaction with pyrazole as nucleophile'.

41. *Gordon Research Conference – Heterocyclic Compounds* (Newport, RI, USA, June 19-24, 2022). Lindsay, V. N. G. 'Reactivity of Sulfonylcyclopropanols as Precursors of Amide Homoenolates and Fused Heterocycles'.

40. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 11, 2022). Penn, K. R.; Lindsay, V. N. G. 'Development of Highly Active Bifunctional (benz)imidazolyl-palladium Catalysts for Application in Sustainable Cross-Coupling Reactions'.

39. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 11, 2022). Jung, M.; Lindsay, V. N. G. 'Synthesis and Applications of 1-Sulfonylcyclopropanols as Modular Cyclopropanone Equivalents'.

38. *The Florida Heterocyclic and Synthetic Chemistry Conference 2022* (FloHet, Gainesville, FL, USA, March 6-10, 2022). Sprague, I. S.; Lindsay, V. N. G. 'Expedient Synthesis of Novel Heterocyclic Scaffolds from Azinium Ylides and Cyclopropanone Equivalents'.

37. *19th Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, July 29, 2021). McGowan, C.; Tubb, J.; Lindsay, V. N. G. 'Studying the Ag(I)-Catalyzed Radical Ring Opening of N-Heterocyclic Adducts of Cyclopropanones through Computational Methods'.

36. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 12, 2021). Penn, K. R.; Lindsay, V. N. G. 'Controlled α-Halogenation of Sulfonamides'.

35. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 12, 2021). Jung, M.; Lindsay, V. N. G. 'Enantioselective synthesis of 1-sulfonylcyclopropanols as tunable precursors of cyclopropanones'.

34. *International Virtual C–H Functionalization Poster Session* (NSF CCHF, Virtual, December 15, 2020). Machín Rivera, R.; Jang, Y.; Poteat, C. M.; Lindsay, V. N. G. 'Synthesis and Rearrangement of Tertiary Cyclopropanols via Addition to New Cyclopropanone Precursors'. (Contributed)

33. *133rd Annual Meeting of the North Carolina Section of the American Chemical Society* (Raleigh, NC, USA, November 10, 2019). Zhu, J.; Lindsay, V. N. G. 'Benzimidazolyl Palladium Complexes as Highly Active and Bifunctional Catalysts in sustainable Cross-Coupling Reactions'.

32. *133rd Annual Meeting of the North Carolina Section of the American Chemical Society* (Raleigh, NC, USA, November 10, 2019). Machín Rivera, R.; Lindsay, V. N. G. 'Practical Synthesis of Cyclopropanols from Cyclopropanone Equivalents'.

31. *133rd Annual Meeting of the North Carolina Section of the American Chemical Society* (Raleigh, NC, USA, November 10, 2019). Penn, K. R.; Lindsay, V. N. G. 'Synthesis of Bis(azolium) Salts'.

30. *133rd Annual Meeting of the North Carolina Section of the American Chemical Society* (Raleigh, NC, USA, November 10, 2019). Jung, M.; Lindsay, V. N. G. 'Enantioselective synthesis of 1-sulfonylcyclopropanols as tunable precursors of cyclopropanones'.

29. *ACS Fall 2019 National Meeting & Exposition* (San Diego, CA, USA, August 25-29, 2019). Jang, Y.; Lindsay, V. N. G. 'Synthesis of Cyclopentenones via Ni-Catalyzed Formal [3+2] Cycloaddition of Cyclopropanones and Internal Alkynes'.

28. *18th Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, August 1, 2019). Flores, J.; Machín Rivera, R.; Lindsay, V. N. G. 'Design and Synthesis of Novel Iridium N-Heterocyclic Carbene Based Complexes for Application in Magnetic Resonance Imaging'.

27. *18th Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, August 1, 2019). Flynn, K.; Jang, Y.; Lindsay, V. N. G. 'Studying the Formation and Reactivity of 2-Substituted Cyclopropanone Adducts of N-Heterocyclic Carbenes'.

26. *Gordon Research Conference – Heterocyclic Compounds* (Newport, RI, USA, June 16-21, 2019). Poteat, C. M.; Jang, Y.; Johnson, J. D.; Lindsay, V. N. G. 'Synthesis of β-Lactams by Metal-Catalyzed Formal [3+1] Cycloaddition of Cyclopropanones'.

25. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 15, 2019). Poteat, C. M.; Lindsay, V. N. G. 'Synthesis of β-Lactams via a Cyclopropanone-based [3+1] Cycloaddition'.

24. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 15, 2019). Machín Rivera, R.; Lindsay, V. N. G. 'Synthesis and Application of Cyclopropanols from New Cyclopropanone Precursors'.

23. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 15, 2019). Deng, W.; Lindsay, V. N. G. 'C–H Fluoroethylation of Heterocycles from Cyclopropanone Precursors'.

22. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 15, 2019). Zhu, J.; Lindsay, V. N. G. 'Benzimidazolyl Palladium Complexes as Highly Active and Bifunctional Catalysts in sustainable Cross-Coupling Reactions'.

21. *The State of North Carolina Undergraduate Research and Creativity Symposium* (SNCURCS, Raleigh, NC, USA, November 10, 2018). Burton, N. R.; Tomat, M. A.; Lindsay, V. N. G. 'Catalytic Formation of α-Substituted Ketones from Simple Aldehydes'.

20. *The State of North Carolina Undergraduate Research and Creativity Symposium* (SNCURCS, Raleigh, NC, USA, November 10, 2018). Johnson, J. D.; Poteat, C. M.; Lindsay, V. N. G. 'One-pot Synthesis of β-lactams from Primary Amines'.

19. *132nd Annual Meeting of the North Carolina Section of the American Chemical Society* (Chapel Hill, NC, USA, November 9, 2018). Poteat, C. M.; Lindsay, V. N. G. 'Controlled α-Halogenation of Sulfones'.
**1st prize for Best Poster Presentation*

18. *132nd Annual Meeting of the North Carolina Section of the American Chemical Society* (Chapel Hill, NC, USA, November 9, 2018). Johnson, J. D.; Poteat, C. M.; Lindsay, V. N. G. 'One-pot Synthesis of β-lactams from Primary Amines'.

17. *17th Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, July 31, 2018). Figueroa-Martínez, G. I.; Machín Rivera, R.; Lindsay, V. N. G. 'Computational Study of 1- (arylsulfonyl)cyclopropanol and Cyclopropanone Equilibrium'.

16. *Gordon Research Conference – Organic Reactions & Processes* (Easton, MA, USA, July 15-20, 2018). Poteat, C. M.; Lindsay, V. N. G. 'Controlled α-Halogenation of Sulfones'.

15. *32nd National Conference on Undergraduate Research* (NCUR, Edmond, OK, USA, April 4-7, 2018). Johnson, J. D.; Anders, E.; Jang, Y. J.; Lindsay, V. N. G. 'Synthesis of Michael Adducts Utilizing Umpolung of Strained Ketones'.

14. *14th Atlantic Coast Conference Meeting of the Minds* (Louisville, KY, USA, March 29-31, 2018). Johnson, J. D.; Anders, E.; Jang, Y. J.; Lindsay, V. N. G. 'Synthesis of Michael Adducts Utilizing Umpolung of Strained Ketones'.

13. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 9, 2018). Tomat, M. A.; Lindsay, V. N. G. 'Protic NHC Complexes as Catalytic Directing Leaving Groups in Regioselective Allylic Substitution'.

12. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 9, 2018). Poteat, C. M.; Lindsay, V. N. G. 'Controlled α-Halogenation of Sulfones'.

11. *NC State Recruitment Week-End – Department of Chemistry* (Raleigh, NC, USA, March 9, 2018). Jang, Y.; Lindsay, V. N. G. 'Metal- and Organo-Catalyzed Activation of Cyclopropanone for the Synthesis of Carbo-and Heterocycles'.

10. *16th Annual North Carolina State University Summer Undergraduate Research and Creativity Symposium* (Raleigh, NC, USA, August 1, 2017). Muñoz Miró, H. A.; Poteat, C. M.; Lindsay, V. N. G. 'Use of Aryl Methyl Sulfones for Divergent One-Carbon Functionalization Reactions'.

9. *ACS Fall 2014 National Meeting & Exposition*, *Academic Employment Initiative* (San Francisco, CA, USA, August 10-14, 2014). Lindsay, V. N. G. 'Catalytic asymmetric synthesis of diacceptor cyclopropanes using chiral Rh(II) complexes / Modern synthetic strategies to alkaloids and other *N*-heterocycles'.

8. *NSF Center for Stereoselective C-H Functionalization* (Annual Meeting, Atlanta, GA, USA, August 16-18, 2013). Murphy, R. A.; Lindsay, V. N. G.; Ye, M.; Yu, J.-Q; Sarpong, R. 'An Approach to the Magellaninone-type *Lycopodium* Alkaloids Using C–H Functionalization'.

7. *43rd National Organic Symposium* (Seattle, WA, USA, June 2013). Murphy, R. A.; Lindsay, V. N. G.; Pushkarskaya, E.; Sarpong, R. 'Toward the Synthesis of Lycopladine- and Magellanine-type *Lycopodium* Alkaloids'.

6. *93rd Canadian Chemistry Conference and Exhibition* (CSC, Toronto, ON, Canada, May 29-June 2, 2010). Lindsay, V. N. G.; Charette, A. B. 'Enantioselective Rhodium(II)-Catalyzed Cyclopropanation of Alkenes with α-EWG-Diazoacetophenones: PMP-ketones as Stereoselectivity Controllers'.

5. *20th Québec-Ontario Minisymposium in Bio-Organic and Organic Chemistry* (QOMSBOC, Québec, QC, Canada, October 31-November 1, 2009). Lindsay, V. N. G.; Lin, W.; Charette, A. B. 'Stereoselective synthesis of *cis*-cyclopropane α-amino acids via a rhodium-catalyzed asymmetric cyclopropanation of alkenes with α-nitro diazoacetophenones'.

4. *19th Québec-Ontario Minisymposium in Bio-Organic and Organic Chemistry* (QOMSBOC, Toronto, ON, Canada, November 8-9, 2008). Lindsay, V. N. G.; Lin, W.; Charette, A. B. 'Stereoselective synthesis of *cis*-cyclopropane α-amino acids via a rhodium-catalyzed asymmetric cyclopropanation of α-diazo-α-nitroketones and alkenes'.

3. *89th Canadian Chemistry Conference and Exhibition* (CSC, Halifax, NS, Canada, May 27-31, 2006). Charette, A. B.; Côté, A.; Lindsay, V. N. G. 'Chiral Bisphosphine Monoxide as a New Class of Ligands in Catalytic Enantioselective Addition of Diorganozincs to β-Nitroalkenes'.

2. *3e Symposium des étudiants gradués en chimie de l'Université de Montréal* (Montréal, QC, Canada, March 21, 2006). Côté, A.; Lindsay, V. N. G.; Desrosiers, J.-N.; Charette, A. B. 'BozPHOS in Catalytic Enantioselective Reduction and Addition of Diorganozinc Reagents to β-Nitroalkenes'.

1. *16th Québec-Ontario Minisymposium in Bio-Organic and Organic Chemistry* (QOMSBOC, Ste-Adèle, QC, Canada, November 11-13, 2005). Côté, A.; Lindsay, V. N. G.; Charette, A. B. 'Catalytic Enantioselective Addition of Diorganozinc Reagents to β-Nitroalkenes Using a Bisphosphine Monoxide Ligand'.

TEACHING AND MENTORING EXPERIENCE

Courses taught at NC State University

20.	CH 810 – Special Topics In Chemistry: Organic Seminar (graduate course, 44 students)	Spring 2026
19.	CH 723 – Advanced Organic Chemistry II (graduate course, 15 students)	Spring 2026
18.	CH 810 – Special Topics In Chemistry: Organic Seminar (graduate course, 32 students)	Fall 2025
17.	CH 755 – Organic Reaction Mechanisms (graduate course, 33 students)	Fall 2025
16.	CH 723 – Advanced Organic Chemistry II (graduate course, 17 students)	Spring 2025
15.	CH 755 – Organic Reaction Mechanisms (graduate course, 21 students)	Fall 2024
14.	CH 227 – Organic Chemistry II (for chemistry majors, undergraduate course, 66 students)	Spring 2024
13.	CH 755 – Organic Reaction Mechanisms (graduate course, 20 students)	Fall 2023
12.	CH 227 – Organic Chemistry II (for chemistry majors, undergraduate course, 53 students)	Spring 2023
11.	CH 755 – Organic Reaction Mechanisms (graduate course, 18 students)	Fall 2022
10.	CH 755 – Organic Reaction Mechanisms (graduate course, 25 students)	Fall 2021
9.	CH 227 – Organic Chemistry II (for chemistry majors, undergraduate course, 47 students)	Spring 2021
8.	CH 755 – Organic Reaction Mechanisms (graduate course, 22 students)	Fall 2020
7.	CH 223 – Organic Chemistry II (for non-chemistry majors, undergraduate course, 230 students)	Spring 2020
6.	CH 755 – Organic Reaction Mechanisms (graduate course, 13 students)	Fall 2019
5.	CH 223 – Organic Chemistry II (for non-chemistry majors, undergraduate course, 208 students)	Spring 2019
4.	CH 755 – Organic Reaction Mechanisms (graduate course, 17 students)	Fall 2018
3.	CH 223 – Organic Chemistry II (for non-chemistry majors, undergraduate course, 176 students)	Spring 2018
2.	CH 755 – Organic Reaction Mechanisms (graduate course, 25 students)	Fall 2017
1.	CH 755 – Organic Reaction Mechanisms (graduate course, 28 students)	Fall 2016

Students/Postdocs mentored at NC State University

Postdoctoral Fellows

1.	Manish K. Singh (Ph.D. The City College of The City University of New York)	Jul 2017 – Aug 2018

Graduate students

19.	Cole Dickson (B.S. University of California, Davis) – *PhD in progress*	Oct 2024 – present
18.	Jack Pocorobba (B.S. Syracuse University) – *PhD in progress*	Oct 2024 – present
17.	Danh Tran (B.S. HCMC University of Technology) – *PhD in progress*	Oct 2023 – present
16.	Malcolm Huguenin (B.S. University of Virginia) – *PhD in progress*	Oct 2022 – present
15.	Joshua Hobbs (B.S. College William & Mary) – *PhD in progress*	Oct 2022 – present
14.	Zack Ferrin (B.S. University of California, Los Angeles) – *PhD in progress*	Oct 2021 – present
13.	Joanna Muir (B.S. Florida Gulf Coast University) – *PhD in progress*	Oct 2021 – present
12.	Brandon Sulc (B.S. University of North Carolina Wilmington) – *PhD in progress*	Oct 2021 – present
11.	Ivan Sprague (B.S./M.S. D. Mendeleev U. of Chemical Technology) – *Graduated with PhD*	Oct 2020 – July 2025
10.	Garim You (B.S./M.S. Seoul National U. Science and Technology) – *Graduated with MS*	Sept 2019 – Dec. 2020
9.	Myunggi Jung (B.S. Yeungnam U., M.S. Seoul National U.) – *Graduated with PhD*	Oct 2018 – May 2023
8.	Kyle R. Penn (B.S. NC State University) – *Graduated with PhD*	Oct 2018 – May 2023
7.	Roger Machín-Rivera (B.S. University of Puerto Rico – Cayey) – *Graduated with PhD*	Oct 2017 – May 2022
6.	Weixia Deng (B.S. University of Kentucky – Lexington) – *Graduated with MS*	Oct 2017 – May 2020
5.	Jiancheng Zhu (B.S. Nankai University, M.S. NC State University) – *Graduated with PhD*	Oct 2017 – Dec 2019
4.	Yujin Jang (B.S./M.S. Kwangwoon University) – *Graduated with PhD*	Oct 2016 – May 2021
3.	Christopher M. Poteat (B.S./M.S. UNC Wilmington) – *Graduated with PhD*	Oct 2016 – May 2021
2.	Marshall A. Tomat (B.A. Franklin & Marshall College) – *Graduated with MS*	Oct 2016 – Dec 2018

1. Evan J. Anders (B.A. Hanover College) – *Graduated with MS* Oct 2016 – Jun 2018

Undergraduate students

25. Joseph Fisher (B.S. Chemistry, NC State University) Jan 2026 – present
24. Anika Rajbhandary (B.S. Comput. Sci. and Chemistry, Carleton Coll., NSF REU) Jun 2024 – July 2024
23. Kenyon Dunlap (B.S. Chemistry, NC State University) Sept 2023 – May 2025
22. Natalie Zachman (B.S. Chemistry, NC State University) Sept 2023 – May 2024
21. Ameer Oudeh (High school student, ACS SEED) Jun 2023 – Aug 2023
20. Akhil Jayanty (B.S. Chemistry/Chemical Engineering, NC State University) May 2023 – present
19. Allen MacMillan (B.S. Chemistry, NC State University) May 2023 – Dec 2024
18. Edina Shub (B.S. Chemistry, NC State University) April 2023 – May 2025
17. Ifediora Nwakuche (High school student, ACS SEED) Jun 2022 – Aug 2022
16. Anh Do (B.S. Chemistry, Colorado College, NSF REU) May 2022 – Aug 2022
15. Maandvi Shah (B.A. Chemistry, NC State University) Sept 2021 – July 2023
14. Emma Messina (B.S. Chemistry, NC State University) Sept 2021 – May 2022
13. Hayden Mann (B.S. Chemistry, NC State University) Sept 2021 – May 2022
12. Christian McGowan (B.S. Morgan State University, NSF REU) Jun 2021 – Aug 2021
11. Luke Call (B.S. Chemistry, NC State University) Sept 2019 – May 2021
10. Kaitlyn Flynn (B.S. University of Miami, Ohio, NSF REU) Jun 2019 – Aug 2019
9. Jamin Flores (High school student, ACS SEED) Jun 2019 – Aug 2019
8. Casey Thompson (B.S. Chemistry, NC State University) May 2019 – May 2021
7. Gabriel I. Figueroa-Martínez (B.S. University of Puerto Rico – Río Piedras, NSF REU) Jun 2018 – Aug 2018
6. Rachel Williams (B.S. Chemical Engineering, NC State University) Sept 2017 – Aug 2018
5. John D. Johnson (B.S. Chemistry, NC State University) Aug 2017 – May 2019
4. Nikolas R. Burton (B.S. Chemistry, NC State University) Aug 2017 – May 2019
3. Héctor A. Muñoz Miró (B.S. University of Puerto Rico – Río Piedras, NSF REU) Jun 2017 – Aug 2018
2. Kyle R. Penn (B.S. Chemistry, NC State University) Jan 2017 – May 2018
1. Mirna Dave (B.S. double major in Biol. Sciences/International studies, NC State University) Jan 2017 – May 2017

Training of undergraduate students prior to NC State University

3. Nicolas Bélanger-Desmarais (B.Sc. Chemistry, Université de Montréal) May 2011 – Aug 2011
2. Éric Lévesque (B.Sc. Chemistry, Université de Sherbrooke) Sept 2009 – Dec 2009
1. Carole Pelletier (M.S. Chemistry, Québec-France Exchange Internship) Sept 2008 – Aug 2009

Teaching assistant experience

1. Teaching assistant, Organic Chemistry III (for 3rd year undergraduate students) Jan 2012 – May 2012

SERVICE

Professional Service on campus

16. Chemistry Colloquium Committee, NCSU Dept. of Chemistry 2025 – present
15. X-ray User Committee, METRIC, NCSU 2023 – present
14. Dabney Renovation Committee, NCSU 2022 – present
13. Stockroom Employee Search Committee, NCSU Dept. of Chemistry 2021 – 2022
12. Professional Track Faculty Search Committee, NCSU Dept. of Chemistry 2021
11. ACS Project SEED Program Mentor, NCSU Dept. of Chemistry 2019 – 2023
10. Academic Advisor to Undergraduate Students (10 students), NCSU Dept. of Chemistry 2018 – present
9. GSK Fellowship Committee, NCSU Dept. of Chemistry 2018 – 2019
8. NSF-REU Mentor (6 summers), NCSU Dept. of Chemistry 2017 – present
7. Reviewer for Undergraduate Research Grants, OUR, NCSU College of Sciences 2017 – 2023
6. Organizer of Symposiums on C–H Functionalization (14), NCSU Dept. of Chemistry 2017 – 2022
5. Safety Committee, NCSU Dept. of Chemistry 2017 – present
4. Graduate Admission Committee, NCSU Dept. of Chemistry 2016 – present
3. Graduate Students Advisory Committee (>50 students), NCSU Dept. of Chemistry 2016 – present
2. Host for Seminar Speakers (14), NCSU Dept. of Chemistry 2016 – present
1. Graduate Student Representative (2 prelim., 1 thesis defense), NCSU College of Sciences 2016 – present

Professional Service off campus

6. Member, Chemistry Evaluation Group (NSERC, Canada) 2024 – present
5. Member, Science of Synthesis Early Career Advisory Board (Thieme Chemistry) 2022 – 2025

4. Judge, Sci-athon 2020 (UNC Chapel Hill) 2020
3. Reviewer, FRQNT panel for Faculty Starting Grants (Canada, 8 reports) 2018
2. Reviewer, ACS Petroleum Research Funds (7 reports) 2018 – present
1. Reviewer for >20 scientific journals (>150 publications overall), including: 2016 – present
   Science, Journal of the American Chemical Society, *Angewandte Chemie*, *Science Advances*, *Nature Synthesis*, *Nature Communications*, *ACS Catalysis*, *Chemical Science*, *Organic Letters*, *Chemical Communications*, *Chemical Reviews, Advanced Synthesis & Catalysis*, *Organometallics*, *Journal of Organic Chemistry*, *Chemistry – A European Journal*, *European Journal of Organic Chemistry, New Journal of Chemistry*, *Tetrahedron*, *Tetrahedron Letters*, *Bioorganic & Medicinal Chemistry*, *Organic & Biomolecular Chemistry*, *Synlett*, *Synthesis*, *Asian Journal of Organic Chemistry*, *Beilstein Journal of Organic Chemistry*

GRANTS AND RESEARCH SUPPORT

4. **Comparative Medicine Institute, Chemistry of Life (CLP) division** (NCSU, $10,000) 2022
   'Strain-promoted bioconjugation using modular cyclopropanone equivalents' (Collaboration with Prof. Jun Ohata)
3. **Maximizing Investigators' Research Award (MIRA)** (NIH R35, $1.8M) 2021 – 2026
   'Unlocking Access to Cyclopropanones as Divergent Reactive Intermediates in Synthesis'
2. **Faculty Early Career Development (CAREER) Program** (NSF CAREER Award, **DECLINED**) 2021 – 2026
   'CAREER: Unlocking Access to Cyclopropanone Analogues as Versatile High-Energy Intermediates in Synthesis'
1. **Faculty Research and Professional Development Program** (NCSU Coll. of Sciences, $3,000) 2018 – 2019
   'Construction of All Carbon Quaternary Centers by Azole-Catalyzed [3,3] Sigmatropic Rearrangement'

REFERENCES

Available upon request.