

**Mike T. Springer, Ph.D.**  
1250 Siskiyou Blvd  
Ashland, OR 97520  
541-552-6410  
springerm@sou.edu

## Education

- University of Colorado, Boulder** **Boulder, CO**
- Doctor of Philosophy: Chemistry and Materials Science 2014
    - *Science and Technology Policy Graduate Certificate*
    - *College Teaching Graduate Certificate (CIRTL)*
- University of Nevada, Reno** **Reno, NV**
- Bachelor of Arts: Philosophy and Sociology 2005
  - Bachelor of Science: Biology (with Distinction) 2008
    - Thesis: The Bioavailability of Dissolved Organic Nitrogen in Wastewater Effluent
  - Bachelor of Science: Chemistry (with Distinction) 2009
    - Thesis: Toward a Synthetic Pathway to Preparation of Polymeric Helicenes
- Masaryk University** **Brno, Czech Republic**
- No degree received, grant-funded project 2008-2009

## Teaching Experience

- Southwestern Oregon Community College** **Coos Bay, OR**
- Department of Chemistry*  
*Assistant Professor* August 2015 – June 2018  
*Associate Professor* August 2018 - Present  
*STEM Division Chair* August 2020 – Present
- Supervisor: Michael Winston; Dean of LDC  
([Michael.Winston@socc.edu](mailto:Michael.Winston@socc.edu))
- College of the Sequoias** **Visalia, CA**
- Department of Chemistry*  
*Assistant Professor* August 2014 – August 2015
- Supervisor: Dr. Robert Urtecho; Dean of Science, Math, and Engineering  
([RobertUr@cos.edu](mailto:RobertUr@cos.edu))
- University of Colorado, Boulder** **Boulder, CO**
- Graduate Teacher Program (CIRTL)*  
*Lead Graduate Teacher* August 2012 – August 2013
- Supervisor: Dr. Laura Border; Director of Graduate Teacher Program  
([Laura.Border@colorado.edu](mailto:Laura.Border@colorado.edu))

**University of Colorado, Boulder** **Boulder, CO**  
*Department of Chemistry and Biochemistry*  
*Graduate Teaching Assistant* August 2009 – August 2013  
Supervisor: Dr. Jacqueline Richardson; Director of Chemistry Labs  
([Jacqueline.Richardson@colorado.edu](mailto:Jacqueline.Richardson@colorado.edu))

## Research Experience

**University of Colorado, Boulder** **Boulder, CO**  
*Department of Chemistry and Biochemistry* August 2009 – August 2014  
Project: Organic synthesis of liquid crystal materials for organic electronics; characterization of thermal and photophysical properties.  
Supervisor: Dr. David Walba ([walba@colorado.edu](mailto:walba@colorado.edu))

**Masaryk University** **Brno, Czech Republic**  
*Department of Chemistry* August 2008 – February 2009  
Project: Organic synthesis of polymeric propellane materials.  
Supervisor: Dr. Ctibor Mazal ([mazal@chemi.muni.cz](mailto:mazal@chemi.muni.cz))

**University of Nevada, Reno** **Reno, NV**  
*Department of Chemistry* January 2008 – June 2009  
Project: Organic synthesis of polycyclic aromatic hydrocarbons.  
Supervisor: Dr. Ben King ([king@chem.unr.edu](mailto:king@chem.unr.edu))

**University of Nevada, Reno** **Reno, NV**  
*Department of Biology* January 2006 – June 2008  
Project: Determination of the bioavailability of dissolved organic nitrogen in wastewater effluent  
Supervisor: Dr. Ben King ([king@chem.unr.edu](mailto:king@chem.unr.edu))

## Publications

- Bertrando, N., Qualls, R. G., Dean, K. L., Brisbin, M., Springer, M. T., Bioavailability of Dissolved Organic Nitrogen Originating from Natural Sources and Wastewater Effluent in the Truckee River, Doctoral Dissertation of Neil Bertrando, **2009**
- Springer, M. T., Improving Students' Understanding of Molecular Structure through Broad-based Use of Computer Models in the Undergraduate Organic Chemistry Lecture, *J. Chem. Ed.*, **2014**, 91 (8), pp 1162-1168
- Springer, M. T., Utilizing Liquid Crystal Phases to Obtain Highly Ordered Thin Films for Organic Electronics, *Doctoral Dissertation*, **2014**
- Springer, M. T., Adapting and Adopting Open Educational Resources: An Analysis of Student Performance, Use, and Perception, *International Journal of Open Educational Resources*, **2019**, 1 (2), pp 9-32

## Presentations

- Liquid Crystals for Organic Photovoltaics Conference; Boulder, CO; Poster presentation: *The “B4” Liquid Crystal Phase* (2010)
- Energy Frontiers Conference; Boulder, CO; Poster presentation: *Creating Ordered Heterojunctions from Liquid Crystals* (2011)
- Inter-Continental Advanced Materials and Photonics Seminar; Boulder, CO; Poster presentation: *Toward Bent-Core Materials with Favorable Electronic Properties* (2012)
- University of Colorado at Boulder, Chemistry department teaching assistant training: Oral presentation: *The Heart, Head, Hand Theory of Learning and Applications to Achieve Effective Chemistry Education* (2012)
- University of Colorado at Boulder, Graduate Teacher Program: Oral presentation: *The Nuts and Bolts of Teaching Science Recitations* (2013)
- Southwestern Oregon Community College, in-service conference: Oral presentation: *Guided Pathways and Community Colleges* (2016)
- Southwestern Oregon Community College, general faculty meeting: Oral presentation: *Formal and Informal Assessment Strategies* (2017)

## Grants

- National Science Foundation*; Energy and Nanoscience Student Exchange (2008)  
**Amount:** \$20000  
**Project:** Organic synthesis of polymeric propellane materials.  
**Publications:** None
- Graduate Teacher Program (CIRTL)*; Teaching-As-Research Grant; (2012)  
**Amount:** \$5000  
**Project:** Improving Students' Understanding of Molecular Structure through Broad-based Use of Computer Models in the Undergraduate Organic Chemistry Lecture.  
**Publications:** <https://doi.org/10.1021/ed400054a>
- SURGE: Science Undergraduate Research Group Experience*; an internal grant from the College of the Sequoias; (2014)  
**Amount:** \$5000  
**Project:** Synthesis of thieno[3,2-b]thiophene Derivatives for Organic Electronics  
**Publications:** None
- Open Oregon Educational Resources*; OER Remix Grant; (2016)  
**Amount:** \$1500  
**Project:** Creating a customized Open Educational Resource (OER) using module content from the OpenStax platform.  
**Publications:** None
- Open Oregon Educational Resources*; OER Research Group Grant; (2017)

**Amount:** \$4500

**Project:** Creating a customized Open Educational Resource (OER) using module content from the OpenStax platform.

**Publications:** <https://www.ijoe.org/adapting-and-adopting-open-educational-resources/>

NASA – Oregon Space Grant Consortium Undergraduate Team Project (2018)

**Amount:** \$12000

**Project:** Analyzing the Chemical Composition of a Fresh Water Lake using Atomic Absorption Spectroscopy

**Publications:** None

*Open Oregon* Educational Resources; OER Remix Grant; (2019)

**Amount:** \$1500

**Project:** Creating a customized Open Educational Resource (OER) using module content from the OpenStax platform.

**Publications:** None

NASA – Oregon Space Grant Consortium Undergraduate Team Project (2019)

**Amount:** \$12000

**Project:** Isolation of Plant Pigments for use in Dye-Sensitized Solar Cells

**Publications:** None

*National Science Foundation*; S-STEM Grant; (2020)

**Amount:** \$645,000

**Project:** The PRISE Program: Preparing Rural students to Identify as Scientists and Engineers

**Publications:** None; Southwestern Oregon Community College failed the Administrative and Financial review so, although the proposal was selected for funding, we did not receive the award

NASA – Oregon Space Grant Consortium Undergraduate Team Project (2021)

**Amount:** \$8000

**Project:** Aligning Thin Films of Liquid-Crystalline Organic Semiconductors

**Publications:** None

NASA – Oregon Space Grant Consortium Undergraduate Team Project (2022)

**Amount:** \$123,280

**Project:** PRISMS: Providing Research Infrastructure for Space and Materials Science

**Publications:** None

## Service

Tutor for AP chemistry Skyline High School; Longmont, CO; (2010-2012)

Undergraduate Honors Research Mentor; Boulder, CO; (2010-2012)

SMART Colorado Diversity Initiative Mentor; Boulder, CO; (2011)

Eco-Leader for Sustainable Chemistry; Boulder, CO; (2009-2014)

ACS Student Club Co-Advisor; Visalia, CA; **(2014-2015)**  
SACNAS Conference Faculty Judge; Los Angeles, CA; **(2014)**  
COS STEM Advisory Board Member; Visalia, CA; **(2014-2015)**  
Oregon Coast STEM Hub Liaison; Coos Bay, OR **(2016-present)**  
SWOCCFT Local 3190 Vice President; Coos Bay, OR **(2016-2019)**  
SWOCCFT Local 3190 President; Coos Bay, OR **(2020-2021)**  
SWOCCFT Local 3190 Treasurer; Coos Bay, OR **(2021-2022)**  
STEM Division Chair; Coos Bay, OR **(2020-present)**

### Awards and Fellowships

Joe E. Moose Biology Scholarship Recipient **(2007)**  
Hans R. Wolfe Chemistry Scholarship Recipient **(2007)**  
General Undergraduate Research Award Recipient **(2008)**  
ACS Analytical Chemistry Undergraduate of the Year **(2008)**  
Promising New Chemistry Graduate Student Fellowship **(2009)**  
Excellence in General Chemistry Teaching Award **(2010)**  
Best Should Teach Silver Award **(2012)**  
John Meek Organic Chemistry Teaching Award **(2012)**  
Patty Feist Organic Chemistry Laboratory Teaching Award **(2013)**  
SOCC Staff Member of the Year Award **(2016-2017)**

### Professional Organizations

American Chemical Society (ACS) Member  
2-Year College Chemistry Consortium (2YC<sub>3</sub>) Member  
NASA Affiliate – Oregon Space Grant Consortium (OSGC) Member