

Tracey E. Lesser
NHTI, Concord's Community College
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Earned Degrees:

M.S. Natural Resources – Water Resources, University of New Hampshire, 2004
B.Phil. Interdisciplinary Studies- Environmental Science, Miami University, Ohio, 2000

Employment History:

9/2016 – Present: Professor of Chemistry, NHTI: Concord's Community College
9/2008 – 9/2016: Associate Professor of Chemistry, NHTI: Concord's Community College
11/2005- 6/2007: Chemistry Teacher, Manchester Central High School
4/2005-7/2005: Consultant, Oyster River Association
8/2002-10/2005: Teaching and Research Assistant, University of New Hampshire
8/2001 – 8/2002: Chemistry and Biology Teacher, Kent School

Professional Activities:

- PFAS uptake in plant study partnership with NHDES
- USFWS Field Redevelopment Project for turning Grappone Field into a Pollinator Meadow \$2000 grant
- Meer Project – partnership with Meer.org and Plymouth State University to measure the effects of changing the Earth's Albedo
- Advisory board member on NSF grant titled Study of Preservice Teachers' Science Content Knowledge and Pedagogical Content Knowledge- Center for Astrophysics, Harvard and Smithsonian 2020- 2023
- Chemistry and Life Sciences program reviewer for the NH Council for Teacher Education 2020-2021
- Member CFAAC – The Chancellor's Faculty Academic Advisory Council 2019-2021
- Advisor: Environmental Action Club 2014 – present
- NHTI Liaison to the Board of Directors for the Sycamore Community Garden Board 2017-present
- Student roundtable discussion on the environment with Senator Annie Kustor, Oct, 2017
- Maine Campus Compact/ EPA Environmental Stewardship Faculty Training and Development Institute, South Portland, Maine, June 2016
- Campus Sustainability Conference, April 15, 2016 Hampshire College, Presented poster: Soil Science and Service Learning at the Sycamore Community Garden in Concord, NH
- SENCER Summer Institute: "Improving STEM Education with the SENCER Summer Institute" -Received NSF grant to attend July, 2015
- Connecticut Rivershed, Airshed, Watershed Consortium Conference, 2003, Burlington, VT

Current Research:

- Cooling the Planet with Surface Reflectors MEER.ORG
A joint project with Plymouth State University, NHTI and Meerreflection

- PFAS uptake in Plants
A joint project with DES
- Urban Field Redevelopment and Pollinator Habitat

Committee's:

- NHTI Safety Committee 2015 – Present
- NHTI Exhibition of Student Work Committee 2018- Present
- NHTI Commencement Committee 2020- Present
- NHTI Library Advisory Board 2021- Present
- NHTI Campus Community Development and Support Subcommittee 2021- present
- NHTI Student Success Subcommittee 2021 – present
- NHTI Recruitment, Retention, and Completion Standing Committee 2023 – Present
- NHTI Orientation Committee 2022- present
- NHTI Diversity, Equity, Inclusion and Belonging Team 2024 -

Honors and Awards:

2020 Chancellor's Award for Excellence in Teaching

2017 Presidents' Good Steward Award – Campus Compact

2017 Presidents' Leadership Award – Campus Compact

Grants:

- **Funder:** Campus Compact/ EPA Grant Recipient; **Project Title:** Environmental Stewardship: Water Quality and Climate Change **Role:** PI **Amount:** \$10,000; **Dates:** 2015-2016
- **Funder:** NH EPSCoR Grant Recipient for Research; **Project Title:** Soil Science and Service Learning at the Sycamore Community Garden in Concord, NH; **Role:** PI **Amount:** \$4500; **Dates:** 2016-2017
- **Funder:** USFWS – Garden Grant; **Project Title:** Revitalization of an Urban Meadow into a Pollinator Meadow \$2000.00 2023-2024

Teaching:

CHEM 100C: Introduction to Chemistry (Instructor) NHTI, Concord's Community College

CHEM 105C: Chemistry (Instructor) NHTI, Concord's Community College

CHEM 103C: General Chemistry I (Instructor) NHTI, Concord's Community College

CHEM 104C: General Chemistry II (Instructor) NHTI, Concord's Community College

CHEM 110C: Introduction to Biochemistry (Instructor) NHTI, Concord's Community College

CHEM 115C: Brewing: The Science Behind Beer (Designer and Instructor) NHTI, Concord's Community College

CHEM 125C: Introduction to General, Organic and Biochemistry (Instructor) NHTI, Concord's Community College

ENVS 290C: Senior Capstone Project (Designer and Instructor) NHTI, Concord's Community College

INDL 101C: STEM and First Year Experience (Instructor) NHTI, Concord's Community College

AGRI 110C: Introduction to Sustainable Agriculture (Designer) NHTI, Concord's Community College

AGRI 112C: Practical Applications of Sustainable Agriculture I (Designer) NHTI, Concord's Community College

AGRI 115C: Practical Applications of Sustainable Agriculture II (Designer) NHTI, Concord's Community College

Program Development:

Associates Degree in Sustainable Agriculture

Certificate in Sustainable Agriculture

Presentations and Posters*:

- Brennan, C, Lesser, T, Houston, R, and S. von Oettingen. Poster- Acoustic Bat Survey Summaries For Three New England States: A Senior Capstone Project. Northeast Bat Working Group Meeting, 2016, Amherst, MA
- O'Donnell, T and W.H. McDowell. Suburbanization, Water Quality and Property Values in Three Northern Forest Watersheds. Northeastern Ecosystem Research Cooperative Conference, 2004, Durham, NH
- O'Donnell, T and W.H. McDowell. Poster - Suburbanization, Water Quality and Property Values in Three Northern Forest Watersheds. 10th Annual Maine Water Conference, 2004, Augusta, ME
- O'Donnell, T and W.H. McDowell. Suburbanization, Water Quality and Property Values in Three Northern Forest Watersheds. Northeastern States Research Cooperative: "Partnerships for the Northern Forest Cooperative" Conference, 2003, Burlington, VT

*Former name Tracey E. O'Donnell