

Fred McLaren, M.S.

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SUMMARY & OBJECTIVE : Master's level chemist seeking adjunct teaching position in chemistry, for one or more courses. Four years college teaching experience in general chemistry (lecture & lab), and also biology. Extensive experience in tutoring, research, lab safety, & instrumentation.

EDUCATION :

M.S. State University of New York at Buffalo, Buffalo, NY, Chemistry, 1993

- Graduate Research : Synthetic Organic Chemistry and Chemical Enzymology / Enzyme Kinetics
- Joint Program Between Department of Chemistry & Department of Biochemistry / School of Medicine
- Thesis Research Published in J. Amer. Chem. Soc. (See : Publications)

B.S. University of Western Ontario, London, Ontario, Canada, Chemistry, 1980

- Undergraduate Research : (4 summers, plus senior year) – Synthetic Organic Chemistry
- T.A. for Organic Chemistry for Nursing Students (Summer 1980)
- Advanced Coursework in Biology, Biochemistry, Physics, & Math

TEACHING EXPERIENCE :

Valley Forge Military Academy & College, Wayne, PA, 2019 – Present

- General Chemistry (Lecture & Lab), 2019 – Present
- Freshman Biology (Lecture & Lab), 2019 – Present
- Anatomy & Physiology (Lecture & Lab), 2020 – 2021
- High School (Private Academy), Grade 11 Biology (Lecture & Lab), 2021 – 2022

Arcadia University, Glenside, PA, 2023 – Present

- General Chemistry (Lab)
- General Chemistry Lab Coordinator (Lab Prep)

Eastern University, St. David's, PA, Spring Semester 2023

- General Chemistry (Lab)

McLaren Chemistry Tutoring, Trooper, PA, 2000 – 2019

- College General Chemistry & Sophomore Organic Chemistry
- High School & AP Chemistry

State University of New York at Buffalo, Buffalo, NY, 1980 – 1983

- Graduate T.A., Organic Chemistry

University of Western Ontario, London, Ontario, Canada, Summer 1980

- T.A., Organic Chemistry for Nursing Students

PROFESSIONAL & RESEARCH EXPERIENCE :

Neuse Technologies (Biotech Company), Horsham, PA, 1997 – 2000

- Synthetic Organic Chemist & Biochemist (Carbohydrate Research)

Elf Atochem, Philadelphia, PA, 1994 – 1996

- & Marketing / Technical Services Rep. (Organic Peroxide Initiators)

Elf Atochem, Buffalo NY, 1993 – 1994

- R & D Analytical Method Development Chemist (Organic Peroxide Initiators)

Fisons Pharmaceuticals, Rochester NY, 1991 – 1992

- R & D Analytical Method Development Chemist

AWARDS & HONORS :

- Provost's Award for Excellence in College Teaching, Valley Forge Military College, 2021
- Graduate Teaching Award, SUNY at Buffalo, 1983

SAFETY EXPERIENCE :

- Safety & Security Committee, Valley Forge Military College, 2021 – 2022
- Chair : Chemical & Radiation Safety Committee, Neose Technologies, 1997 – 2000
- Chemical Safety Committee, Elf Atochem, 1993 – 1994

INSTRUMENTAL EXPERIENCE :

- NMR, IR, UV / Vis, MS, AA, GC, HPLC

COMPUTER & SOFTWARE EXPERIENCE :

- Google Classroom, Zoom, MS – Office
- CMS : Canvas, Populi, Brightspace, PowerSchool

RESEARCH PUBLICATIONS :

Mechanism – based Inactivation of Galactose Oxidase. Evidence for a Radical Mechanism, Bruce P Branched, Michael P Montague – Smith, Daniel J Kosman, & Frederick R McLaren, J. Am. Chem. Soc., (1993), 115, 2, 798 – 800

Nitro olefin Bicycloannulation : One Step Synthesis of Tricyclooctan -6 ones from Cyclohexenones and of Tricycloheptan-3 ones from Cyclopentenones, Robert M Cory, Paul C Anderson, Murray D Bailey, Fred R McLaren, Richard M Renneboog, & Brian R Yamamoto, Can. J. Chem., (1985)

Carbon Atom Insertion Bicycloannulation : Total Synthesis of Ishwarane & Ishwarone, Robert M Cory, Lester PJ Burton, Dominic MT Chan, Fred R McLaren, Mary H Rastall, & Richard M Renneboog, Can. J. Chem., (1984)

Bicycloannulation with Nitroethene & 1- Nitropropene. A One Step Synthesis of Tricyclenone, Robert M Cory, Paul C Anderson, Fred R McLaren, & Brian R Yamamoto, J. Chem. Soc. Chemical Communications, (1981)

A Short Synthesis of Ishwarone, Robert M Cory, Dominic MT Chan, Fred R McLaren, & Mary M Rasmussen, Tetrahedron Letters, (1979)

Carbon Atom Insertion : An Efficient Synthesis of Ishwarane, Robert M Cory & Fred R McLaren, J. Chem. Soc. Chemical Communications, (1977), 587