Ryan PMcLaughlin

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CURRENTOSITION

AssociateProfessor

Department of ChemistrySeattle University, Seattle, WA

Research Interests Atmospheric and Environmental Chemistry, Molecular Spectrosamply Microscopy, Laser-Induced Breakdow Spectroscopy

EDUCATION PROFESSIONAL EXPERIENCE

Interim Department Chair Department of Chemistry, Seattle University, Seattle, WA (2020)
Department Chair Department of Chemistry, Seattle University, Seattle, WA (2001/47)
Associate Professoof Chemistry Department of Chemistry, Seattle University, Seattle, (12007-present)

Fulbright Scholar and Visiting Professor

Department of Chemistry and Center for Research in Atmospheric Chemistry (CRAC), University College Cork, Cork, Ireland (2009)

Assistant Professoof Chemistry

Department of Chemistry, Seattle University, Seattle, W00 (207)

Postdoctoral Fellow

TeacherScholar Program in Einonmental/PhysicaChemistry
Department of ChemistryUniversity of Washington, Seattle, W2000-2001)
Research ProjecPhaseDependent Photodissociation Dynamics of Reservoir Compounds
Advisor Philip J. Reid

Doctor of PhilosophyPhysical Chemistry (1999)

University of California, Berkeley, CA

Thesis TitlelRLaser Absorption Spe oPh1c 0.005 Tw 0.4Ps6o

- 10) NSFMajor Research Instrumentation (MRGrant(# CHE1229760), Acquisition of a Ramables Microscope for Interdisciplinary Research and Research Training at Seattle Unitability Science Foundation; Augua12–2014;\$275,809.
- 9) Summer Faulty Fellowship, "Conformationally Depender Rhotochemical Reaction Rates and Environmental Impact of Alkyl Nitrite Compounds," Seattle University, 20,1120,0\$7
- 8) Fulbright ScholarGrant, "Ice surface photochemistry of organic nitrates and the gration of novel atmospheric science with guided inquiry leag," Fulbright Program, 20090, \$56,750
- 7) Hewlett-Packard Technology in Teaching Leadership Grantin (r)-7.7(and)]12 (g)-8.2 (y)-8.3 (i)-8-6 (a)你97\$,y是1(y)jft-是(水)7(6)(百)你8.38/3.10(18)(17)31(31)31/31(31)31

- 27) J.D. Rarick I. Gerbec, M.W. Prier, G.S. Mason, AMiller, CB. Stipe and R.P. McLaughlineser Induced Beakdown Spectroscopy (LIBS) as a Tool for Real-time Analysis of Airborn Obilica, presentation, Seattle University Undergraduate Research Association (SUURA) Celebration of Student Scholarship Conference, Seattle University, Seattle, WA (May, 201
- 26) JD. Rarick* I. Gerbec,* MW. Prier,* G.S. Mason, AL. Miller, C.B. Stipe and RP. McLaghlin, 'Laser Induced Breakdown Spectroscopy (LIBS) as a Tool fetin Real nalysis of Airborne Silicar, oster presentation, American Chemical Society Undergrate Research Sympsoum, Pacific Luthera College, Tacoma, WA (April, 2015)

- 12) W. Donald* Y. Zhang* and R.P. McLaughlMi,bfrational Analysis of butyl, isobutyl and tert-butyl nitrite," Posterpresentation, American Chemical Socie#yuget Sond Setion Undergraduate Research Symposium, Seattle Pacific University, Seattle, WA (2005),
- 11) W. Donald* Y. Zhang*and R.P. McLaughlin/Ibrational Analysis of Næeservoir Compodes," Posterpresentation, 13th Regional Conference on Undergrade Research, University of Portland, Portland, ORNovember, 2004)
- 10) RP. McLaughlirf How We Describe Things We Can't See: Using Laser Spectroscopy to Watch Dissociative Regions," Invited seminar, Bannan Schola, Seattle University, Seattle, WA (November 2004)
- 9) R.P. McLaughlir Thermal Imaging Technology and Limitatiönsvited talk, CRIM305, School of Law, Seattle University, Seattle, WA (October, 2004)
- 8) RP. McLaulglin, C. Capacci B. Nyholm and P. Reji Resonance Raman Intensity Analysis of Isopropyl Nirate in the Condensed Phase osterpresentation, 12 Regional Conference on Undergraduate Research, Pacific Lutheran University, Tacoma, WA (November, 2003).
- 7) <u>C. Capac</u>ci*and R.P. McLaughlin, Alkyl Nitrate Photochemistr, Posterpresentation, American Chemical Society Indergraduate Research Symposium, Seattle University, Seattle, WA (May, 2003)
- 6) RP. McLaughliand C. Capacçi*Vibrational Analysis of Atmosphie Alkyl Nitrateş' Posterpresentation, Celebration of Faculty Scho720.7 cci (iu.9 (3)f -5 Tc 0.0033 0 Td [(()]T0 52)]TJ -0.007

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- 10) External Tenure Review Requested by AssociaDeanChristopher Brooks University of San Francisco.Department of Arts and Scienc(2012)
- 11) Grant Review American Chemical Society etroleum Research Funt Investigating the Molecular Interactions Betwee Solute and Cosolvent Molecules in Superatio Q." PRF# 44487B4 (2005)
- 12) Textbook Review, Levin Quantum Chemistry 5th Ed, Chapt. 5 and 6, Prentice Hall (2005)
- 13) Manuscript Review J. Lewins, A'New Calculation of the Work of Fromation of Bubbles and Drops" Paper # 04PA0340, Proceedings of Roya Society A(2005).
- 14) Grant Review, American Chemical Society troleum Research Fid, "Atmospheric Dicarbonyl Photoproducts in Urban Air Pollution," Gramoposal #38314GB4 (2002)

PROFESSIONAL DEVELLENT

- 1) American Chemical Souty Workshopparticipant, "Empowering Academic Researchers to Strengthen Safety Culture (2022).
- 2) Sciene & Engineerin@iversityReadingand Discussion Groupparticipant, Seattle University2020)
- 3) Faculty Learning Community: The partment Chair as Transformative Diversity Leader: Building Inclusive Learning Environments in Higher Education, Center for Faculty Development, Seattle University, Setale, WA (2017)
- 4) New Chair and Director Institute Talaris Conference Center, Seattle, WA (2014)
- 5) Faculty Training New Health Professions Evaluation ProceSeattle University, Seatte WA (2014)
- 6) Panel Discussion, The Short Straw? Pros and Cons Defcoming a Department Chair, Seattle University, Seattle, WA (2013)
- 7) Pre-Medical Advisor Conference, University of Washington, Seattle, WA (2013)
- 8) Advanced Process Oriented Guidendquiry Learning (POGIL) Workshop Seattle University, Seattle, WA (2006)
- 9) Process Øented Guided Inquiry Learning (POGIL) Workshop, Linfield College, McMinnville, OR (2005)
- 10) Washington College Chemistry Teachers Association Conference venworth, W (2003 and 2006).
- 11) Biennial Conference on Chemial Education, Western Washingtoniversity, Bellingham, WA (2002).

SERVICE

- 1) Member, Department Review @mmittee, Dr. ChrostopheiWhidbeyMid-TenureFile, Department of Chemistry, Seattle Universit(2022)
- 2) Member, Chemisty Instrumentation Committee, Chemistry Department Seattle University Q 2021)
- 3) Interim Department Chair, Department of Chemistry, Seattle inversity (FQ 2020)
- 4) Alternate, Academic Grievance Boardeview Ommittee, College of Science & Engineer (2020)
- 5) Chair, Department Review Committee, Dr. Katherine Frato Tenurand Promotion, Department of Chemistry, Seattle Universit 2019)
- 6) Member, Departmental Safety Committe Chemistry Department Seattle Univers (2019-present)
- 7) Member, College Review Committeer. Andrea Verdan Senior Institut Promotion File Department of Chemistry, Seattle University (2020)
- 8) Member, Hiring Committee for Senior Administrative Assista Department of Chemistry, Seattle University (2018)
- 9) General Chemistry Comittee, CoChair, Seattle University (2016)
- 10) Department Chair, Department of Chemistry, Seattle University (2012017)
- 11) College of Science and Engineering Curriculum Committee, Seattle University-(26)4

- 12) Faculty Library Representative, Chemistry Department, Seattle University (2015/16)
- 13) Academic DemissalCommittee (ad hoc) Member, College of Science and Engineering, Seattle University (2014)
- 14) Master Teaching Schedule Committee, Member, Chemistry Department, Selattlærsity(2013-14)
- 15) Member, Search Committee, PreHealth Advisor, Seattle Universe (2013)
- 16) University Core Curriculum Committe eattle University (201-32017)
- 17) General Chemistry Curriculum Committee, Membepartment of Chemistry, Seattle University (2012-present)
- 18) Safety Committee, Chail Department of Chemistry, Seattle Universite (2012-13)
- 19) Accepted Student Department Reception Lead@ollege of Science and Engineering (2013)
- 20) Graduate Fellowship and Scholarship Review Committeellege of Sciencend Engineering (2012 13)
- 21) Core Curriculm Review 6mmittee, Seattle Universit(2012-13)
- 22) Curriculum Committee College of Science and Engineering (2012)
- 23) Safety Committee Member, Department of Chemistry, Seattle University (2012)
- 24) Pre-Health Interview Panel, College of Science and Engineer Bagattle University (20102013)
- 25) Science and Engineering Facilities Plannin Committee, Department of Chemistry Representative, Seattle University (20101)