Ryan PMcLaughlin

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CURRENTOSITION

AssociateProfessor Department of ChemistrySeattle University, Seattle, WA <u>Research Interes</u>tsAtmospheric and Environmental Chemistry, Molecular SpectrosappyMicroscopy, Laser-Induced BreakdowSpectroscopy

EDUCATION HOPROFESSIONAL EXPERIENCE

Interim Department Chair Department of Chemistry, Seattle University, Seattle, WQ 2020) Department Chair Department of Chemistry, Seattle University, Seattle, WA (200147) Associate Professoof Chemistry Department of Chemistry, Seattle University, Seattle, (20007-present)

FulbrightScholar 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(1207)

Postdoctoral Fellow

TeacherScholar Program in Einonmental/PhysicaChemistry Department of ChemistryUniversity of Washington, Seattle, W/2000-2001) <u>Research Projec</u>PhaseDependent Photodissociation Dynamics of Reservoir Compounds <u>Advisor</u> Philip J. Reid

Doctor of PhilosophyPhysical Chemistry (1999) University of California, Berkeley, CA Thesis TitletRLaser Absorption Spe oPh1c 0.005 Tw 0.4Ps60

- 10) NSFMajor Research Instrumentation (MRGrant(# CHE1229760), Acquisition of a RamabiBS Microscope for Interdisciplinary Research and Research Training at Seattle U, in Massion al Science Foundation; Augu2012-2014;\$275,809.
- 9) Summer Facelty Fellowship, "Conformationally Dependent Rhotochemical Reaction Rates and Environmental Impact of Alkyl Nitrite Compounds," Seattle University, 20,120,0\$7
- 8) FulbrightScholarGrant, "Ice surface photochemistry of organic nitrates and thegration of novel atmospheric science with guided inquiry leag," Fulbright Program, 20090, \$56,750

7) Hewlett-Packard Technology in Teaching Leadership Grano05 TTf P(r)-7.7(and)]12 (g)-8.2 (y)-8.3 (i)-8-0 (0-9 157yc PC6)701706 (033033-PCh T28(3-(6)17)), 127037865589/6507792853;1607(20);1270666667676667676667676666

- 27) J.D. Rarick I. Gerbec, M.W. Prier, G.S. Mason, AMiller, CB. Stipe and R.P. McLaughlin aser Induced Beakdown Spectroscopy (LIBS) as a Tool for Real-time Analysis of Airborh Stalica, 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 R. McLaghlin, 'Laser Induced Breakdown Spectroscopy (LIBS) as a Tool fetin Real Analysis of Airborne Silica?, oster presentation, American Chemical Society Undergrate. Research Sympsoum, Pacific Luthera College, Tacoma, WA (April, 2015)
- 25) J Rarick* P. McDo8 (1[004 T]TJ -0.01 Tc 0.01 3)-4.7004 Tw J 0 T.5 Tw 16.022* n U4d-WA -WS6285) Jw.8 C62I 310 0.72 re f EMC B6 /LB70y <</MCITc 0.005 Tw 156 f EM668n I]TJ 0

- 12) <u>W. Donal</u>d* <u>Y. Zhang</u>* and R.P. McLaughlMibrational Analysis of butyl, isobutyl and tert-butyl nitrite," Posterpresentation, American Chemical SocieRyuget Sond Setion Undergraduate Research Symposium, Seattle Pacific University, Seattle, WA **2A05**,
- 11) <u>W. Donald</u>* <u>Y. Zhang</u>*and R.P. McLaughlin/Ibrational Analysis of Noteservoir Compode," Posterpresentation, 13th Regional Conference on Undergrade Research, University of Portland, Portland, ORNovember, 2004)
- <u>R.P. McLaughli</u>nf 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) <u>R.P. McLaughli</u>rt⁴Thermal Imaging Technology and Limitatiönisvited talk, CRIM305, School of Law, Seattle University, Seattle, WA (October, 2004)
- <u>RP. McLaulglin</u>, C. Capacci B. Nyholm and P. Rei Resonance Raman Intensity Analysis of Isopropyl Nirate in the Condensed Phase osterpresentation, 1th 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)
- <u>RP. McLaughliand</u> C. Capacçi*Vibrational Analysis of Atmosphie Alkyl Nitrates' Posterpresentation, Celebration of Faculty Scho720.7 cci (iu.9 (3)f -5 Tc 0.0033 0 Td [(()]T0 52)]TJ -0.001
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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 SocieRetroleum Research Funternovestigating the MolecularInteractions BetweeSolute and Cosolvent Molecules in SuperalicQ," PRF# 44487B4 (2005)
- 12) Textbook Review, LevinQuantum Chemistry5th Ed, Chapt. 5 and 6, Prentice Hall (2005)
- 13) Manuscript Review J. Lewins, A'New Calculation of the Work of Formation of Bubbles and Drops" Paper # 04PA0340, Proceedings of Roya Society A(2005).
- 14) Grant Review, American Chemical Societytroleum Research Fid, "AtmospheridDicarbonyl Photoproducts in Urban Air Pollution," Gramoposal #38314GB4 (2002)

PROFESSIONAL DE VPELEONT

- 1) American Chemical Society Workshopparticipant, "Empowering Academic Researchers to Strengthen Safety Culture(2022).
- 2) Sciene & EngineeringDiversityReadingand 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 Uniersity, Seate WA (2014)
- 6) Panel Discussion, The Short Straw? Pros and ConsBercoming a Department Chair, Seattle University, Seattle, WA (2013)
- 7) Pre-Medical Advisor Conference, University of Washington, Seattle, WA (2013)
- 8) Advanced Process Oriented Guidendpuiry Learning (POGIL) Workshop Seattle University, Seattle, WA (2006)
- Process @iented Guided Inquiry Learning (POGIL) Workshop, Linfield College, McMinnville, OR (2005)
- 10) Washington College Chemistry Teachers Association Conferdnezevenworth, WA2003 and 2006).
- 11) Biennial Conference on Chemial Education, Western Washingtomiversity, Bellingham, WA (2002)

SERVICE

- 1) Member, Department Review Ommittee, Dr. Chrostophei/WhidbeyMid-TenureFile, Department of Chemistry, Seattle Universit/2022)
- 2) Member, Chemisty Instrumentation Committee, Chemistry Department Seattle University 2021)
- 3) Interim Department Chair, Department of Chemistry, Seattle niversity (FQ 2020)
- 4) Alternate, Academic Grievance Boardeview Ommittee, College of Science & Engineer (2020)
- 5) Chair, Department ReviewCommittee, Dr. Katherine Frato Tenurand Promotion, Department of Chemistry, Seattle Universit(2019)
- 6) Member, Departmental Safety Committee Chemistry Department Seattle Univers(2019present)
- 7) Member, College Review Committe Dr. Andrea Verdan Senior Institutor Promotion File Department of Chemistry, Seattle University (2620320)
- 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 (201201-7)
- 11) College of Science and Engineering Curriculum Committee, Seattle University-(26)4

- 12) Faculty library Representative, Chemistry Departent, Seattle University (2015)
- 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 Univers (2013)
- 16) University Core Curriculum Committe Seattle University (201-32017)
- 17) General Chemistry Curriculum Committee, Memberpartment of Chemistry, Seattle University (2012-present)
- 18) Safety Committee, ChairDepartment of Chemistry, Seattle Universit 2012-13)
- 19) Accepted Student Department Reception Leadeollege 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 Begattle University (20102013)
- 25) Science an Ergineering Facilities Plannin Committee, Department of Chemistry Representative, Seattle University (20101)

26) Academic Assembly94510 T70.293 (c)(E)-1 Tw 1.772 0 Td [(,)-1 (C)10.3 (o)-6.6 (lle)-3 (g)2.6 (e)-3 ()10.6 المجاز (مالك المحكم ا