

Curriculum Vitae
Mary Joyce A. Dinglasan-Panlilio

Associate Professor and Chair

School of Interdisciplinary Arts and Sciences – Science and Mathematics Division

University of Washington, Tacoma

1900 Commerce Street, Box 358436

Tacoma, WA 98402

Phone: (253) 692-4823

Fax: (253) 692-4639

E-mail: jdingpan@u.washington.edu

EDUCATION

- | | |
|---------------|---|
| Graduate | Ph.D. , Environmental Chemistry, 2008, University of Toronto. Thesis: Biodegradation of Fluorotelomer Compounds as a Source of Perfluorinated Acid Formation in the Environment.
S. A. Mabury and E. A. Edwards. Supervisors |
| Graduate | M.Sc. , Environmental Chemistry 2002, University of Toronto. Thesis: Enrichment, Characterization and Isolation of 1,2-Dichloroethane Degrading Microbial Cultures Under Various Conditions.
E. A. Edwards and S. A. Mabury, Supervisors. |
| Undergraduate | B.Sc. Human Biology Specialist, 2000, University of Toronto. |

ACADEMIC POSITIONS

Associate Professor - University of Washington Tacoma (2014 – Present)
Chair Division of Sciences and Mathematics – (2016-Present)

Assistant Professor - University of Washington Tacoma (2008 – 2013)

Acting Assistant Professor - University of Washington Tacoma (2007-2008)

RESEARCH

Primary research focus involves investigation of sources and environmental fate of emerging contaminants including fluorinated organic chemicals from industrial and commercial products, study of the metabolites and degradation pathways of these compounds under abiotic and biotic conditions.

REFEREED PUBLICATIONS (* undergraduate students)

Dinglasan-Panlilio, M.J., *Prakash, S., Baker, J.E. “Perfluorinated Compounds (PFCs) in the Surface Waters of Puget Sound, Washington and Clayoquot Sound, British Columbia”. *Marine Pollution Bulletin*. 2014. 1-2:173-180.

Dinglasan-Panlilio, M.J., Chang, D. and Wetzstein, L. “Incorporating a service-learning project in upper division environmental chemistry course – Partnership with a local middle school”, *Curriculum for Bioregion-Activity Collection [Internet]*. 2013 Available from: <http://serc.carleton.edu/bioregion/activities.html>

Burgard, D. A., Fuller, R., Becker, B., *Ferrell, R., and **Dinglasan-Panlilio, M.J.** “Potential trends in Attention Deficit Hyperactivity Disorder (ADHD) drug use on a college campus: Wastewater analysis of amphetamine and ritalinic acid”, *Science of The Total Environment*, 2013. 450-451: 242-249.

Phillips, M.M., **Dinglasan-Panlilio, M. J.**, Mabury, S.A., Solomon, K.R. and Sibley, P.K., "Chronic toxicity of fluorotelomer acids to *Daphnia magna* and *Chironomus dilutus*." *Environmental Toxicology and Chemistry*. 2010. 29(5): 1123-1131.

Phillips, M.M., **Dinglasan-Panlilio, M. J.**, Mabury, S.A., Solomon, K.R. and Sibley, P.K., "Fluorotelomer acids are more toxic than perfluorinated acids." *Environmental Science and Technology*. 2007. 41(20): 7159-7163.

Hirschorn, S.K., **Dinglasan-Panlilio, M.J.**, Edwards E.A., Lacrampe-Couloume, G., Sherwood Lollar, B. "Isotope analysis as a natural reaction probe to determine mechanisms of biodegradation of 1,2-dichloroethane" *Environmental Microbiology*. 2007.9(7): 1651-1657.

Dinglasan-Panlilio, M.J., Mabury, S.A. "Significant Residuals Fluoroalcohols Detected from Various Fluorinated Materials. *Environmental Science and Technology*. 2006. 40(5):1447-1453.

Dinglasan-Panlilio, M.J., Dworatzek, S., Mabury, S.A., Edwards, E. A. "Microbial oxidation of 1,2-dichloroethane under anoxic conditions with nitrate as electron acceptor in mixed and pure cultures." *FEMS Microbial Ecology*. 2006. 56(3) 355-364.

Hirschorn, S., **Dinglasan, M.J.**, Elsner, M., Mancini, S., Lacrampe-Couloume, G., Edwards E.A., Sherwood Lollar, B. "Pathway Dependent Isotopic Fractionation During Aerobic Biodegradation of 1,2-Dichloroethane." *Environmental Science and Technology*. 2004. 38(18): 4775-4781.

Dinglasan, M.J., Ye, Y., Edwards, E.A., Mabury, S.A. "Fluorotelomer Alcohol Biodegradation Yields Poly- and Perfluorinated Acids." *Environmental Science and Technology*. 2004. 38(10): 2857-2864.

Published Abstracts and Presentations

*Kuhn, A. and **Dinglasan-Panlilio, M.J.** Concentrations of Perfluorinated Compounds in Pacific Blue Mussels from the Greater Puget Sound. Presented at Salish Sea Ecosystem Conference. April 30 -May 2 2014. Seattle, Washington. Poster Presentation

Burgard, D. A., Fuller, R., Becker, B., *Ferrell, R., and **Dinglasan-Panlilio, M.J.** Trends in Attention Deficit Hyperactivity Disorder (ADHD) drug use on a college campus: as evidenced through wastewater analysis. Presented at American Chemical Society National Meeting. April 7-11 2013. New Orleans, Louisiana. Poster Presentation

*Prakash, S., Baker, J.E. and **Dinglasan-Panlilio, M.J.** Baseline Measurement of Perfluorinated Acids in Surface Waters from the Puget Sound Region. Presented at the University of Washington Waters Symposium. April 18, 2011. Seattle, Washington. Poster Presentation.

*Prakash, S., Baker, J.E. and **Dinglasan-Panlilio, M.J.** Baseline Measurement of Perfluorinated Acids in Surface Waters from the Puget Sound Region. Presented at the Pacific Northwest Chapter Meeting of Society of Environmental Toxicology and Chemistry (SETAC). April 15, 2011. Vancouver, Washington. Platform Presentation.

*Prakash, S. and **Dinglasan-Panlilio, M.J.** Perfluorinated Carboxylic Acids in Surface Waters from the Puget Sound Region. Presented at the Society of Environmental Toxicology and Chemistry (SETAC) 32nd Annual North America Meeting. November 7-11, 2010. Portland, Oregon. Poster Presentation. Awarded Best Student Poster Presentation in the Undergraduate Category.

*Yeam, J. and **Dinglasan-Panlilio, M.J.** Investigation into the hydrolytic stability of polyfluorinated compounds. Presented at the Society of Environmental Toxicology and Chemistry (SETAC) 32nd Annual North America Meeting. November 7-11, 2010. Portland, Oregon. Poster Presentation.

*Prakash, S. and **Dinglasan-Panlilio, M.J.** Measurement of Perfluorinated Acids from Water Samples from Quarter Master Harbor, Puget Sound. 12th Annual University of Washington Undergraduate Research Symposium. May 15, 2009. Seattle, Washington. Poster Presentation.

Invited Talks and Presentations

Dinglasan-Panlilio, M.J. “PFAS 101: Chemistry, Application and Consequences” Presented at the Whidbey Water Keepers Panel Forum. December 4, 2017

Dinglasan-Panlilio, M.J. “The Sticking Point on Non-Stick Materials” Presented at the Pacific Science Center Tacoma Science Café. September 8, 2015. Tacoma Washington.

Dinglasan-Panlilio, M.J., Chang, D. and Wetzstein, L. University of Washington Tacoma and First Creek Middle School Joint Monitoring and Stewardship Project. Presented at the Faculty Institute on “Sustainability and Service-Learning” The Curriculum for the Bioregion Initiative , the Washington Center and Washington Campus Compact. November 30, 2012. Seattle, Washington.

Dinglasan-Panlilio, M.J., Chang, D. and Wetzstein, L. University of Washington Tacoma and First Creek Middle School Joint Monitoring and Stewardship Project. Presented at the Foss Waterway Seaport and Service, Education and Adventure (SEA) SEA - Bay Watershed Education Training (BWET) Workshop for Environmental Educators. June 27-30, 2011. Tacoma,

University of Washington 2011 Water Symposium, “Fate and Transport of Perfluorinated Compounds in the Environment.” April 18, 2011.

University of Washington, Department of Environmental and Occupational Health Sciences Seminar Series, “The concern over perfluorinated chemicals.” January 29, 2009.

Washington State, Department of Ecology, Environmental Assessment Program Seminar Series, “The concern over perfluorinated chemicals.” November 25, 2008.

United States Geological Society, Washington Water Science Center, Tacoma Seminar Series, “The concern over perfluorinated chemicals.” November 18, 2008.

University of Washington, Tacoma Environmental Science Seminar Series, “To keep or not to keep your Teflon Pans?” Fluorinated compounds and their associated environmental concerns.” April 14, 2008.

GRANTS AWARDED

WA Department of Health 2019

(\$67,000) Drinking water survey from Washington State

UW Tacoma SIAS Scholarship and Teaching Fund
– November 2018

(\$4,310.32) Investigating PFAS Contamination in
Drinking Water Sourced from Private Wells

NSF S-STEM 2018-2022 (Co-PI – Faculty lead for CURE component of project)	(\$649,994) Achieving Change in our Communities, for Equity and Student Success (ACCESS) in STEM” program
UW Bridge Funding Program – September 2017-2018 (Co-PI- Led air sampling analysis component of project)	(\$30,000) Tacoma-Pierce County Indoor Air Pollution Project
School of Interdisciplinary Arts and Science Research and Teaching Fund University of Washington Tacoma – 2016	(\$3,998) “Measurement of Perfluorinated Compounds in Consumer Products”
Sabbatical Leave, September 2015 – June 2016	
Interdisciplinary Arts and Science Research, Teaching and Teaching Improvement - University of Washington Tacoma 2013	(\$2,947) “Quantifying Perfluorinated Precursor Compounds from Automotive Care Products
Center for Leadership & Social Responsibility Faculty Innovation Grant, University of Washington Tacoma 2013	(\$1,500) “Curriculum Enhancement Grant for Organic Chemistry Sequence of Courses – Incorporation of Green Chemistry Concepts”
Washington Toxics Coalition 2012	(\$30,000) “Evaluation of Perfluorinated Compounds in Dust and Laundry Water in Households along the Columbia River”
University of Washington Tacoma Chancellor’s Fund – 2012 Summer Research Development Program	(\$7,540 – one month summer salary) For preparation and development of a grant proposal for submission to NSF Career Grants
The Russell Family Foundation 2012	(\$35,000) “UWT and First Creek Joint Monitoring and Stewardship Project”
Make a Splash Grant, City of Tacoma 2010	(\$3,981) “UWT and First Creek Middle School Joint Monitoring and Stewardship Program”
University of Washington, Chancellor’s Fund for Research and Scholarship 2010	(\$5,000) “Investigating the Contribution of Storm Water as a Source of Perfluorinated Acid Contamination in the Puget Sound”
The Russell Family Foundation 2010 (Co-PI – Implemented the project into curriculum of TESC 333 Environmental Chemistry)	(\$15,000) “First Creek Volunteer Monitoring and Stewardship Project” (joint proposal with Jim Gawel and Lia Wetzstein)
	Stewardship Project”
University of Washington Tacoma, Research Quarter Support, 2009	Release time to pursue research project entitled, “Elucidating the Role of Wastewater Treatment in the Dissemination of Perfluorinated Compounds in the Puget Sound Region”
University of Washington Tacoma, Chancellor’s Fund for Research and Scholarship 2008	(\$5000) “Environmental Monitoring of Fluorinated Organic Contaminants in the Puget Sound Region”