Gyllian C. Porteous porteou@uwindsor.ca

UCATION	
University of Windsor, Windsor ON Graduate Studies in Chemistry and Biochemistry	2012-201
 Coursework: Surface Chemistry and Analysis, Chemistry of Liquid Crystals, and Supramolecular Chemistry 	
 President of the Graduate Chemistry Club presiding over fundraising and organization of social events 	
University of Windsor, Windsor ON	
B. Arts. Sc. Honors with Major Concentration in Chemistry and Minor Concentration in Classical Studies	2008-201
Graduated "with Great Distinction"	
Honors Thesis: "Electroless and Immersion Metallization of	
Elastomeric Substrates" – awarded Best Chemistry Research Project	
On President's Honor Roll and Dean's List	
 Co-president of the Arts and Science Association presiding 	
over charity fundraising, and mentoring of B.A.S. students	
over charity fundraising, and mentoring of B.A.S. students	
	2013
NSERVATION EXPERIENCE Detroit Institute of Art, Detroit MI	2013
Detroit Institute of Art, Detroit MI Conservation Volunteer	2013
Detroit Institute of Art, Detroit MI Conservation Volunteer Polished 18 th and 19 th century silverware using alumina slurries	2013
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Detroit Institute of Art, Detroit MI Conservation Volunteer Polished 18 th and 19 th century silverware using alumina slurries Hours experience: 9 hours Institute for Aegean Prehistory Study Center for East Crete, Pachia Ammos, Crete Conservation Volunteer Consolidated and reassembled Bronze Age ceramics Applied and painted plaster gap-fills Cleaned metal objects in preparation for consolidation	
Detroit Institute of Art, Detroit MI Conservation Volunteer Polished 18 th and 19 th century silverware using alumina slurries Hours experience: 9 hours Institute for Aegean Prehistory Study Center for East Crete, Pachia Ammos, Crete Conservation Volunteer Consolidated and reassembled Bronze Age ceramics Applied and painted plaster gap-fills Cleaned metal objects in preparation for consolidation Stabilized Bronze Age kiln floor using mortars and reinstalled in situ	
Detroit Institute of Art, Detroit MI Conservation Volunteer Polished 18 th and 19 th century silverware using alumina slurries Hours experience: 9 hours Institute for Aegean Prehistory Study Center for East Crete, Pachia Ammos, Crete Conservation Volunteer Consolidated and reassembled Bronze Age ceramics Applied and painted plaster gap-fills Cleaned metal objects in preparation for consolidation	

RESEARCH EXPERIENCE

University of Windsor, Windsor ON

Research Assistant in Computational Chemistry

2014

Contributing to computational study of enzymatic mechanisms

Research Assistant in Materials Chemistry

2009-2013

- Led 3 research projects in the area of stretchable and flexible electronics
- Supervised undergraduate researchers and trained new students on laboratory procedures
- Contributed to the development of a stretchable lightemitting electrochemical device

RESEARCH SKILLS

- Scanning Electron Microscopy (SEM)
- Atomic Force Microscopy (AFM)
- Contact Angle Goniometry (CA)
- UV-Vis Spectroscopy and Fluorometry
- Optical Microscopy
- Gas Chromatography Mass Spectroscopy (GC-MS)
- High Performance Liquid Chromatography (HPLC)
- Nuclear Magnetic Resonance (NMR) Spectroscopy
- Infrared (IR) Spectroscopy
- Gravimetric and Volumetric Analysis
- Soft Lithography
- Surface Modification via Self Assembly Monolayer deposition

ARCHAEOLOGICAL EXPERIENCE

University of Windsor, Windsor ON

Practicum in Classical Archaeology

2009

- Spent 16 days excavating in Mytilene, Greece
- Developed skills in processing finds (e.g. triangulation)

ARTISTIC EXPERIENCE

University of Windsor, Windsor ON

Studio Practice and Ideas: Image

2014

- Learning basic principles of composition and design, light and pigment-based colour theory, as these apply to painting, photo-based processes, and print production
- 12-week credit course

 Learning a variety of drawing processes, materials and concepts in a studio environment 	
12-week credit course	
Pewabic Pottery, Detroit MI	
Wheel-Throwing	2
 Learning to wedge, center, pull-up and form on the potter's wheel, including a focus on glazing and firing techniques 42 class hours 	
Toledo Museum of Art, Toledo OH	
Introduction to Glassblowing	2
Learning the basics of glass gathering and blowing8 class hours	
Introduction to Flameworking	2
Learning the basics of using a torch for glass working8 class hours	
Julia Conlon's Art Studio, Windsor ON	
Watercolour and Drawing	2003-2
9	
Mastered medium of watercolours through guided application	
Mastered medium of watercolours through guided	
Mastered medium of watercolours through guided application	2012-20
Mastered medium of watercolours through guided application CHING EXPERIENCE University of Windsor, Windsor ON Graduate Assistant – Analytical, Instrumental, and	2012-20
Mastered medium of watercolours through guided application CHING EXPERIENCE University of Windsor, Windsor ON Graduate Assistant – Analytical, Instrumental, and Physical Chemistry Supervised 2 nd year Physical Chemistry and 3 rd year Analytical and Instrumental Chemistry undergraduate students in laboratory setting Demonstrated techniques and procedures	2012-20
 Mastered medium of watercolours through guided application CHING EXPERIENCE University of Windsor, Windsor ON Graduate Assistant - Analytical, Instrumental, and Physical Chemistry Supervised 2nd year Physical Chemistry and 3rd year Analytical and Instrumental Chemistry undergraduate students in laboratory setting Demonstrated techniques and procedures Responsible for students' understanding of experiment theory 	2012-20
 Mastered medium of watercolours through guided application CHING EXPERIENCE University of Windsor, Windsor ON Graduate Assistant - Analytical, Instrumental, and Physical Chemistry Supervised 2nd year Physical Chemistry and 3rd year Analytical and Instrumental Chemistry undergraduate students in laboratory setting Demonstrated techniques and procedures Responsible for students' understanding of experiment 	2012-20
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PUBLICATIONS

Filiatrault, H.L., **Porteous, G.C.**, Carmichael, R.S., Davidson, G.J.E., and Carmichael, T.B. (2012) Stretchable Light-Emitting Electrochemical Cells Using an Elastomeric Emissive Material. Advanced Materials. 24: 2673-2678. (Undergraduate Work) (Featured on the cover).

AWARDS AND SCHOLARSHIPS

٠	Ontario Graduate Scholarship (OGS), Provincial, University of Windsor	2013
٠	National Sciences and Engineering Research Council Canadian Graduate Scholarship (NSERC CGS M), Federal, University of Windsor	
•	NSERC Undergraduate Student Research Award (USRA), Federal, University of Windsor	2012
٠	Denis Tuck Memorial Award, Institutional, University of Windsor	2012
	 Awarded to the best Chemistry undergraduate thesis for 2012 	
•	NSERC USRA, Federal, University of Windsor	2011
•	NSERC USRA, Federal, University of Windsor	2010

SKILLS

- Bilingual English/French
- · Creative problem-solving
- Enjoy teaching and giving oral presentations
- Critical writing
- Organized