

# CHEMISTRY (GRADUATE)

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## DAMON CROSS

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### EDUCATION

- **BSc Chemistry (Co-op)** Sep 2007 – Aug 2012
- University of Victoria

### WORK EXPERIENCE

**Co-op Student** Jan 2012 – Aug 2012

Centre for Drug Research and Development  
Vancouver, British Columbia

- Conduct organic synthesis to obtain biologically active small molecules (drugs)
- Utilize TLC, HPLC-MS, and nmr techniques to critically analyze reaction progress and products
- Effectively trouble-shoot technical challenges and modify procedures where necessary to obtain desired targets

**Co-op Researcher** May 2011 – Aug 2011

Defence Research and Development Canada  
Esquimalt, British Columbia

- Researched and developed superhydrophobic materials
- Used electrospinning, plasma treatment, and sol-gel techniques to derivitize materials
- Developed a proficiency using a scanning electron microscope to characterize samples
- Utilized EDX and ATR FT-IR spectroscopy for analysis

**Geophysics Student** Sep 2010 – Dec 2010

Geological Survey of Canada – Pacific  
Sidney, British Columbia

- Measured the electrical impedance of mineralized rock cores using a multi-frequency AC circuit and Solartron impedance analyzer
- Analyzed impedance plots and made program fittings to physical parameters
- Measured the magnetic susceptibility and anisotropy of mineralized rock cores using JR5 spinner magnetometer as part of a paleomagnetism study
- Prepared synthetic methane clathrate in a state of the art high pressure vessel
- Monitored gas hydrate experiments with thermistors and time domain reflectometer

**Analytical Chemist** Jan 2009 – Apr 2009

Axys Analytical Services Ltd.  
Sidney, British Columbia

- Prepared and extracted environmental and industrial samples for analysis for perfluorinated trace contaminants
- Separated raw extracts into phases and performed clean up steps in preparation for instrumental analysis
- Added accurate internal and recovery standard amounts (in uL) to facilitate quantification
- Developed effective trouble-shooting skills to overcome difficulties with problem samples
- Followed Standard Operating Procedures and Methodology, as well as prescribed safety practices
- Recorded data to provide accurate legal history
- Prepared reagents, maintained stock inventory, cleaned work area and glassware

## VOLUNTEER EXPERIENCE

### **Student Representative**

Sep 2011 – Present

UVic Chemistry Co-op  
Victoria, British Columbia

- Sat in on coop meetings
- Delivered speech to incoming faculty of science students at new student orientation day in Fall 2011

## SKILLS AND ABILITIES

### **Laboratory Skills**

- University lab experience with IR, NMR, GC, and MS spectroscopic analysis techniques, as well as an advanced knowledge of electrical impedance spectroscopy
- Industry experience with FT-IR and a scanning electron microscope
- Able to plan and conduct organic or inorganic synthesis
- Can isolate and purify compounds using thin layer or column chromatography
- Able to isolate or extract desired compounds via steam distillation or liquid-liquid extraction
- Experienced with standardization/back titration

### **Computer Skills**

- Practiced in developing custom programs for data fitting
- Extensive experience and training in Microsoft Office, including Excel, Word, PowerPoint, Access, and Publisher
- Strong understanding of Java and programming and HTML design and modification
- Experience with entering or retrieving information using multiple systems, including multi-network and Laboratory Information Management System (LIMS)

### **Interpersonal**

- Good communication skills and able to interact well with a range of personality types
- Quick and eager to learn new skills
- Trustworthy and appreciate the importance of responsibility

## AWARDS

- Chemistry Coop Student of the Year 2012
- Chemistry Coop Work Term Report Award– First Prize 2011

## ACTIVITIES & INTERESTS

Outdoors: Enjoy fishing, pan-mining, hiking, camping, and exploring forest and mountainous terrain

Sports: avid runner, play recreational basketball, baseball, tennis, and football

Cooking: Possess a passion for food through continual exploration of different techniques and equipment

Chemistry Social Executive: Plan social activities and participate in meetings, organize charitable initiatives

## REFERENCES

Peter Winters, Associate Scientist  
Centre for Drug Research & Development  
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Dr Paul Brown, Scientist  
Defence Research and Development  
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