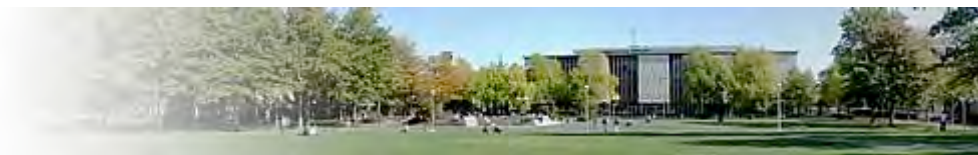


# **Chemistry at the University of Victoria**



## Consider UVic...

- World class research in a dynamic and interactive atmosphere
- State of the art equipment and excellent technical support
- Innovative graduate curriculum, based on non-traditional groupings of research expertise, providing graduates with an unusually broad knowledge base
- This collegial department is in the midst of renewal and growth. It's an exciting time to be here!

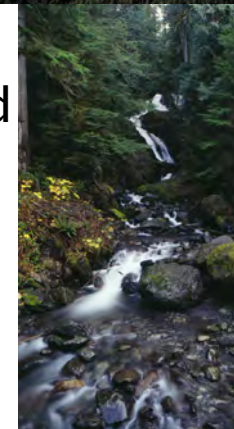


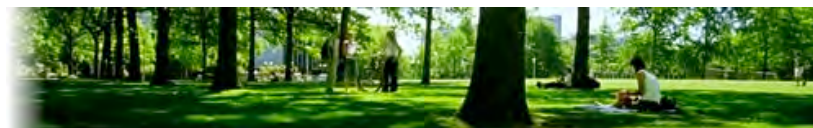




## Consider Victoria on beautiful Vancouver Island...

- A spectacularly beautiful city (pop. >300,000) located on the southern tip of Vancouver Island.
- Within easy ferry rides of Vancouver and Seattle, as well as the Gulf and San Juan Islands, and Washington's Olympic Peninsula.
- Mild climate allows year-round outdoor activities, with lots of opportunities to take advantage of the nearby ocean, beaches, and mountains.
- Not as wet as you might think, with an annual average of 2183 hours of sunshine (compared to 2039 hours in Toronto and 1847 hours in Vancouver).





## Consider an advanced degree in chemistry...

- Take your talents and skills in chemistry to a new level.
- Build on your undergraduate experience to develop the skills to be competitive in today's scientific and teaching job markets.
- Develop the ability to think critically and analytically
- Learn in-depth & creative problem-solving, independently and within a group setting.
- Learn to communicate effectively your ideas and scientific results.

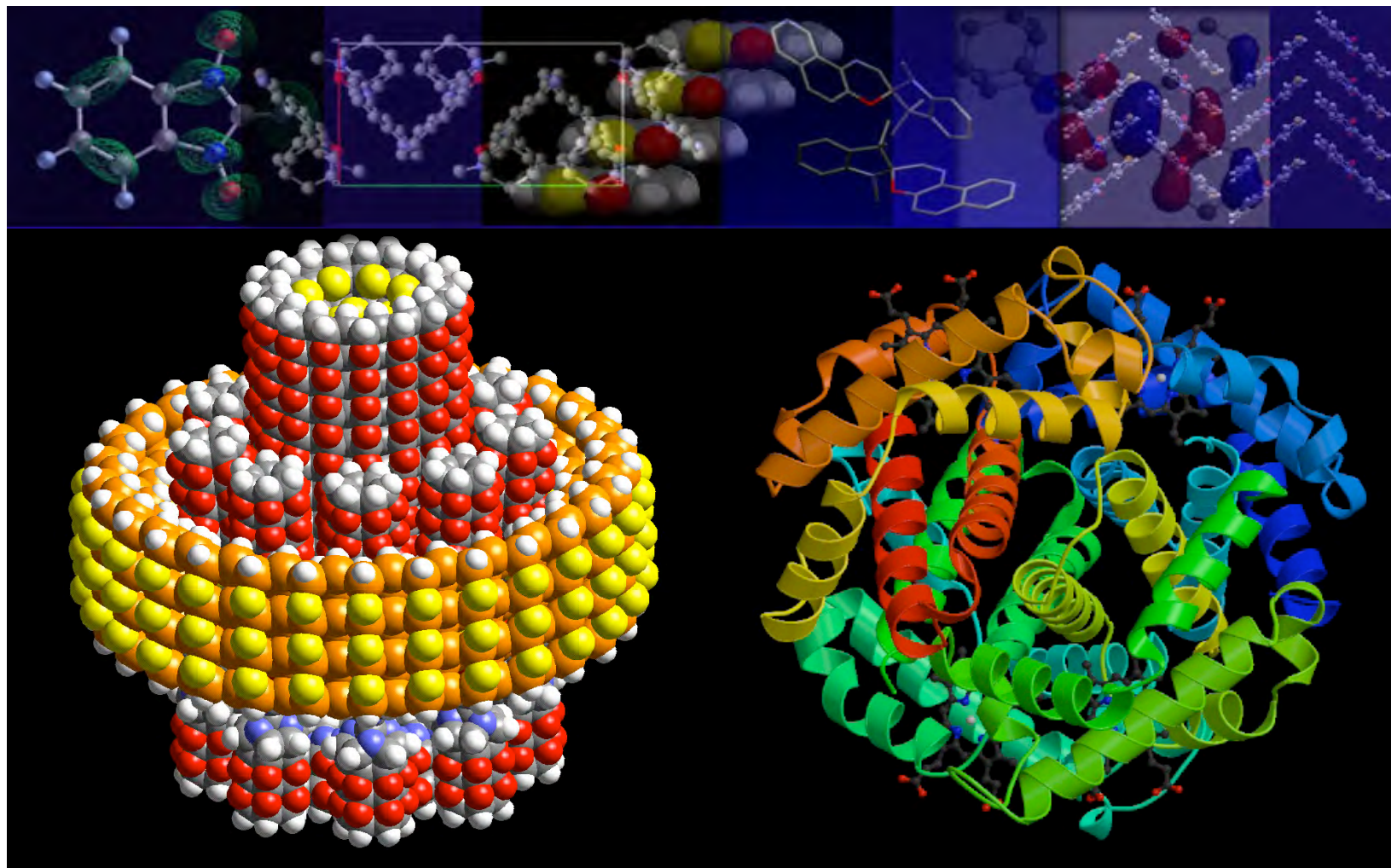




**University of Victoria**  
Department of Chemistry

RESEARCH

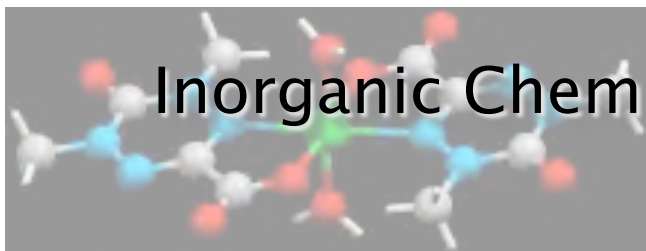
## Chemistry in Materials and Biology







## Inorganic Chemistry



Coordination chemistry of lanthanides

Main group organometallics

Catalysis

Polysilane synthesis

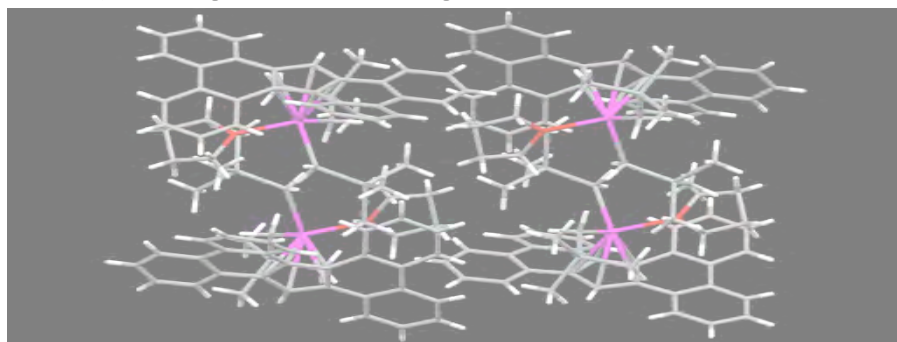
Nanoparticle synthesis

Main group heterocyclic chemistry

Magnetochemistry

Cluster chemistry

Hydrogen Storage



Dr. Scott McIndoe



Dr. Lisa Rosenberg



Dr. Dave Berg



Dr. Robin Hicks



Dr. Natia Frank



Dr. Frank van Veggel



# Organic Chemistry

Synthesis of Stable Organic Radicals

Heterocyclic Synthesis

Peptide Synthesis

Conjugated Polymer synthesis

Enzyme-substrate binding

Medicinal Chemistry

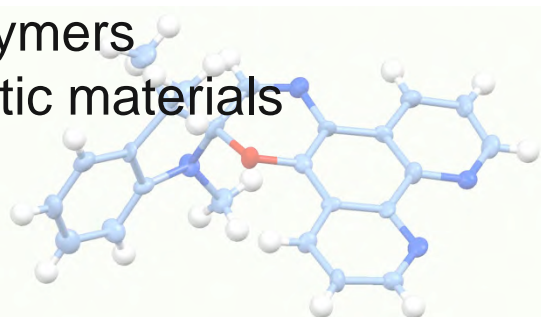
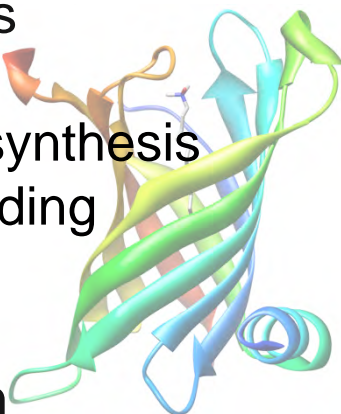
Aromaticity

Molecular Recognition

Photochromes

Conducting polymers

Organic Magnetic materials



Dr. Fraser Hof



Dr. Reg Mitchell



Dr. Tom Fyles



Dr. Natia Frank

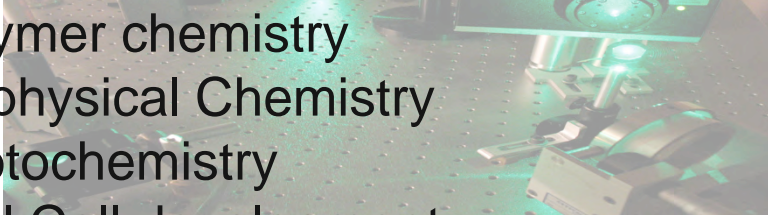


Dr. Jeremy Wulff

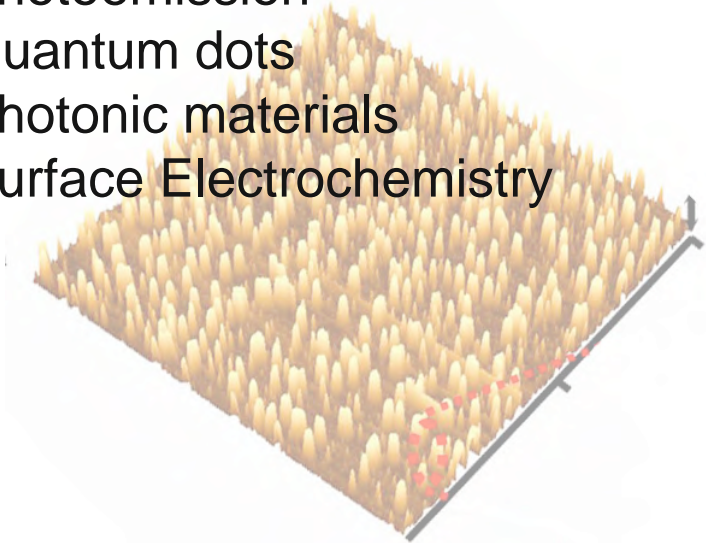




## Physical/Analytical Chemistry



Polymer chemistry  
Biophysical Chemistry  
Photochemistry  
Fuel Cell development  
Computational modeling of surfaces  
Raman Spectroscopy of surfaces  
Photoemission  
Quantum dots  
Photonic materials  
Surface Electrochemistry



Dr. Alex Brolo



Dr. Dennis Hore



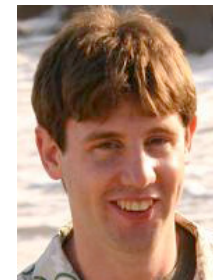
Dr. Irina Paci



Dr. Cornelia Bohne



Dr. Peter Wan



Dr. David  
Steuerman



Dr. David Harrington



Dr. Matt Moffitt

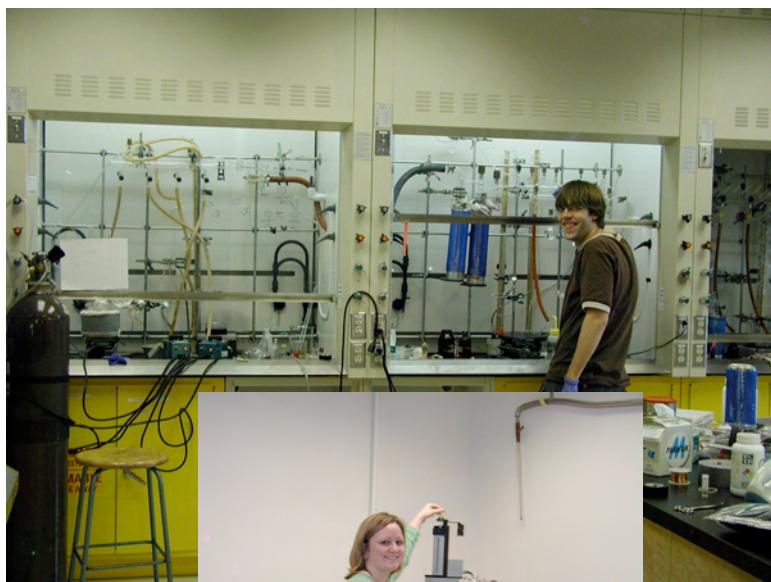


Dr. Frank  
van Veggel





## Your lab environment....



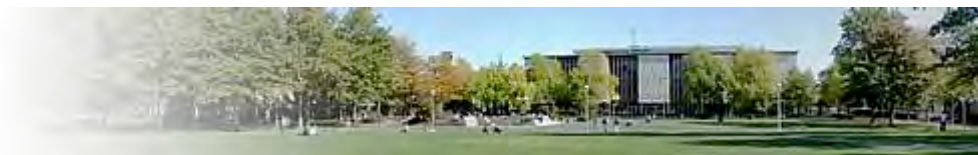




## New Chemistry Building Opening in Fall 2008







## Grad students find our program to be....

**Collegial:** Our non-traditional research structure promotes interaction between research groups. Students, faculty and staff are all comfortable bouncing ideas off each other, to everyone's benefit, both in and out of the lab.

**Accessible:** The department is well equipped and boasts a top-notch support staff. Students are encouraged to learn to use our state of the art instrumentation, and rarely experience wait times for access to machines.

**Balanced:** We are a dynamic and innovative research department, *and* we help our students to be good teachers. The strength of our undergraduate laboratory program reflects the support and training our graduate TA's receive.



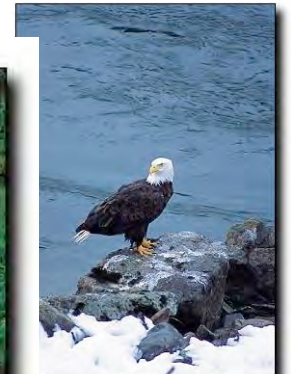
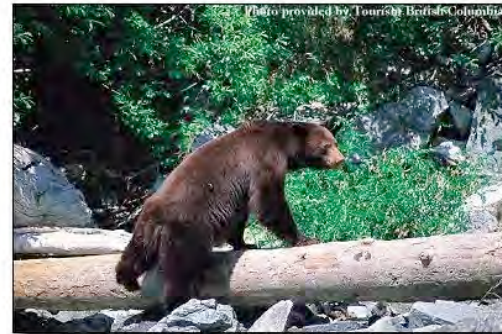
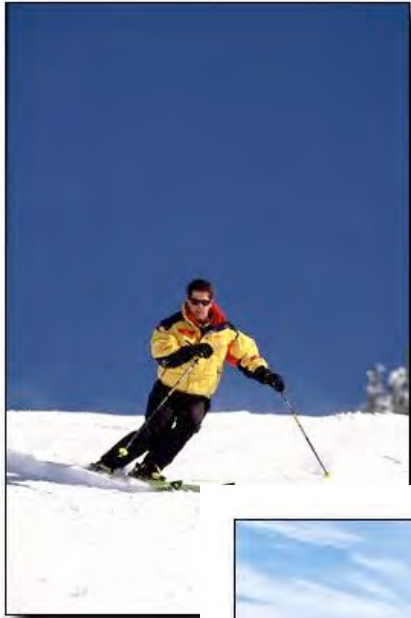


# Victoria





# Vancouver Island: Beauty Year-Round





### *How big is the department?*

- 19 faculty members
- 60–80 full-time researchers(students and postdocs)
- ~40 B.Sc. graduates/yr



***Research group sizes:*** Typically between 2 and 8.

### *Where do our grad students come from?*

- BC (e.g. UVic, UBC, Okanagan University College, SFU)
- Canada (e.g. Dalhousie, UNB, Acadia, Mt. Allison, U. of Ottawa, Queen's, U. of Waterloo, McMaster, U. of Manitoba, U. of Saskatchewan)
- The World (e.g. PRC, India, Sri Lanka, Japan, UK, Spain, Czech Republic)

***Number of graduate students with scholarships:*** Typically about 20–30% of our students hold NSERC scholarships, UVic Graduate Fellowships, or other major awards.





***What if I don't have a scholarship (yet?):*** There's a minimum stipend paid jointly by your supervisor (RA) and the university (TA). At UVic a full teaching load is two lab sections per semester.

***What will I earn as a grad student?***

- Typical graduate stipend: \$22,000 (scholarship holders earn lots more)
- NSERC PGS holders receive additional \$4,000/yr for duration of scholarship
- All grad students are considered yearly for UVic scholarships valued from \$150 to \$12,000

***What does it cost to be a grad student?***

- Tuition & fees: \$5,744/yr w. health & anc. fees (\$6300 w. health, dental & anc. fees)

***Cost of living in Victoria:***

- Rents comparable to Halifax, Montreal, Ottawa, and Saskatoon; less than Toronto or Vancouver and more than Hamilton, Waterloo, or Winnipeg.
- Food is more expensive, and so is gas, but...
- Public transportation is efficient and bus passes are included in student fees, and...
- You can ride your bike all year round!



***What is the minimum GPA for admission into the program?***

- Anyone with a B average or higher should apply.

***What if my cumulative GPA improved toward the end of my undergraduate degree?***

- UVic Grad Admissions considers your GPA for the last two years leading to your undergraduate degree (or the overall average during a Master's degree).

***Who should write my letters of reference?***

- Faculty or staff from your undergraduate chemistry department who know you well.
- If you have any research experience, your application should include a letter of reference from your research supervisor(s). This helps us to evaluate your potential as a researcher, independent of your grades.

***If I am accepted into the program, am I guaranteed a position in a research group?***

- Yes. This is because you are only formally accepted into the program if one or more faculty members is willing to become your supervisor
- Here's how it works: once your application has been screened by UVic Graduate Admissions and our departmental Grad Studies Committee, it is circulated among faculty members looking for new graduate students. Supervisors who are willing to add you to their group sign your file. You will then be notified of your acceptance and given a list of potential supervisors to choose from.



**University  
of Victoria**



*Graduate Studies in the  
Department of Chemistry*

**Is it for you? Find out!**

***Make contact:***

- Email us with your questions and let us know your interests
- We'll put you in touch with possible supervisors, who'll be happy to discuss their research with you
- Contact potential supervisors directly, they'll be delighted to hear from you

***Come and visit:***

- Tour the department & campus, meet with possible supervisors, and chat with current grad students to find out what life is like here at UVic, during one of our Grad Info Days
- Contact [cjenkins@uvic.ca](mailto:cjenkins@uvic.ca) or phone 250-721-7156 for details
- If your application has been accepted by our Grad Studies Committee three weeks prior to your visit, we will reimburse you up to \$500 for travel, and will arrange and pay for your accommodation.
- If your application is accepted later, we will then reimburse your accommodation and up to \$500 for travel.

***Try us out for a summer:***

- we encourage applications for NSERC USRAs from across Canada
- check out the RISE & ICE programs for undergraduate research(<http://www.chemistry.uvic.ca/RISE.htm>; <http://www.chemistry.uvic.ca/ICE.html>)



## Application deadlines & procedures:

- Deadline for application: mid-February, but applications accepted all year
- Successful applicants are automatically considered for a UVic Graduate Fellowship & receive assistance to visit UVic at decision-making time
- The domestic application fee is \$75; the international fee is \$125 and applies to any student with a bachelor's degree from a non-Canadian institution. May be waived upon request.
- Application and referee forms may be downloaded from the UVic website at <http://registrar.uvic.ca/grad/documents/ApplicationPkg.pdf>

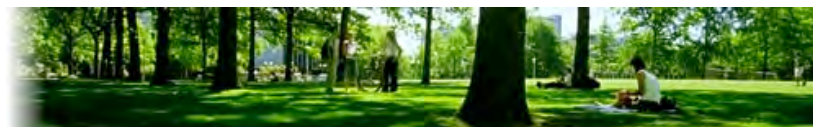




**University  
of Victoria**



*Graduate Studies in the  
Department of Chemistry*



## **Chemistry Department:**

Carol Jenkins, Graduate Secretary [cjenkins@uvic.ca](mailto:cjenkins@uvic.ca)

Dave Berg, Graduate Advisor [djberg@uvic.ca](mailto:djberg@uvic.ca)

Thomas Fyles, Department Chair [chemhead@uvic.ca](mailto:chemhead@uvic.ca)

## **Web Pages:**

University of Victoria: [www.uvic.ca](http://www.uvic.ca)

Department of Chemistry: [www.chemistry.uvic.ca](http://www.chemistry.uvic.ca)

Graduate Admissions & Records: [www.uvic.ca/grar](http://www.uvic.ca/grar)

## **Other Useful Web Pages:**

[www.careerchem.com](http://www.careerchem.com)

[www.cs.unc.edu/~azuma/hitch4.html](http://www.cs.unc.edu/~azuma/hitch4.html)