

59-410 Presentations: Schedules, Titles, Supervisors and Readers, v. 2 - April 24, 2013

Students, supervisors and readers, please check out the list below to ensure the accuracy of this information. **Marking scheme information and sheets for both supervisors and readers** are included at the end of this document; please feel free to contact me if there are any questions or discrepancies.

Please note that the thesis hand-in date has been changed to April 26, 2013.

Quick View Schedule: 59-410 Presentations

Monday April 29, 2013

	<i>Slot</i>	<i>Presenter</i>	<i>Supervisor</i>	<i>Reader</i>
8:50-9:00	Opening Remarks			
9:00-9:20	1	DeLuna	Gauld	Macdonald
9:20-9:40	2	Mohamud	Rawson	Johnson
9:40-10:00	3	Church	Pandey	Boffa
10:00-10:20	4	Lam	Johnson	Loeb
10:20-10:40	Coffee Break			
10:40-11:00	5	Matthews	Johnson	Macdonald
11:00-11:20	6	Reid	Mutus	Ananvoranich
11:20-11:40	7	Ga'al	Rawson	Macdonald
11:40-12:00	8	Nari	Vacratsis	Pandey
12:00-12:20	9	Frias	Green	Eichhorn
12:20-1:30	Lunch			
1:30-1:50	10	Jasra	Pandey	Zhang
1:50-2:10	11	Namespetra	Schurko	Rawson
2:10-2:30	12	Atwan	Mutus	Vacratsis
2:30-2:50	13	Zghal	Eichhorn	Green
2:50-3:10	Coffee Break			
3:10-3:30	14	Kazim	Gauld	Vacratsis
3:30-3:50	15	Yu, P.	Loeb	Eichhorn
3:50-4:10	16	Sands	Ananvoranich	Vacratsis
4:10-4:30	17	Yu, J.	Eichhorn	Carmichael
4:30-4:50	18	Dunmore	Rawson	Macdonald

Tuesday April 30, 2013

	<i>Slot</i>	<i>Presenter</i>	<i>Supervisor</i>	<i>Reader</i>
8:50-9:00	Opening Remarks			
9:00-9:20	19	O'Kane	Carmichael	Mutus
9:20-9:40	20	Balun	Boffa	Cavallo-Medved
9:40-10:00	21	Shoshani	Johnson	Loeb
10:00-10:20	22	Beiraghi	Gauld/Eichhorn	Rawson
10:20-10:40	Coffee Break			
10:40-11:00	23	Chen	Aroca	Wang, J.
11:00-11:20	24	Taing	Eichhorn	Green
11:20-11:40	25	Friedl	Schurko	Macdonald
11:40-12:00	26	Lahoud	Boffa	Ananvoranich
12:00-12:20	27	Prochazka	Carmichael	Loeb
12:20-1:30	Lunch			
1:30-1:50	28	Simard	Gauld	Rawson
1:50-2:10	29	Jaroszewicz	Schurko	Johnson
2:10-2:30	30	Ali-Khan	Mutus	Taylor
2:30-2:50	31	Ngenzi	Green	Loeb
2:50-3:10	Coffee Break			
3:10-3:30	32	Foy	Johnson	Green
3:30-3:50	33	Xiao	Taylor	Vacratsis
3:50-4:10	34	Thibodeau	Green	Johnson
4:10-4:30	35	Joshi	Pandey	Vacratsis

59-410 Research - Department of Chemistry & Biochemistry
List of students, titles, supervisors and readers, 2012-2013

Ali Khan, Hyder

Functional Consequences of NO_x Modification on Cystathionine-Gamma-Lyase

Supervisor: Mutus, Reader: Taylor

Atwan, Yousif

Novel Function of Cystathionine-γ-Lyase: Disulfide Reductase

Supervisor: Mutus, Reader: Vacratsis

Balun, Jennifer

TAFI a Novel Regulator of Breast Cancer Invasion and Migration

Supervisor: Boffa, Reader: Cavallo-Medved

Beiraghi, Omid

Electronic properties of probed polyaromatic heterocycles by DFT calculations

Supervisor: Eichhorn/Gauld, Reader: Rawson

Chen, Wenhao

Giant SEF enhancement and SHINEF with silver nanocubes

Supervisor: Aroca, Reader: Wang, J.

Church, Julia

Evaluating the Anti-Cancer Activity of Novel Compounds and Synthetic Analogues of Pancreatistatin in Colorectal Cancer and Leukemia Cells and in Colon Tumor Xenografts

Supervisor: Pandey, Reader: Boffa

De Luna, Phil

Much Ado About Allene Oxide Synthase:

A Computational Study on Mutagenic Enzymatic Catalysis

Supervisor: Gauld, Reader: Macdonald

Dunmore, Adam

Synthesis and Reactivity of Benzodiazaphospholes:

Towards Diazaphospholyl Radicals

Supervisor: Rawson, Reader: Macdonald

Foy, Adam

Rates and Selectivity of C-F Bond Activation of

Fluorinated Benzenes Using Ni(PR₃)₂ Synthons

Supervisor: Johnson, Reader: Green

Frias, Patrick

Vinylogous Nazarov Cyclization of (Cycloheptyne)dicobalt Complexes

Supervisor: Green, Reader: Eichhorn

Friedl, Zack

New Methods for the Acquisition of Ultra-Wideline ¹⁴N Solid-State NMR Spectra - A Study of L-Lysine

Supervisor: Schurko, Reader: Macdonald

Ga'al, Nasteha

Sulfur Nitrogen Chains

Supervisor: Rawson, Reader: Macdonald

Jaroszewicz, Mike

Using Specialized Radio-Frequency Pulses to Study Unreceptive Quadrupolar Nuclei

Supervisor: Schurko, Reader: Johnson

Jasra, Harshil

Neuroprotective Effects of Ubisol-QE in MPTP Induced Transgenic Mice Model Of Parkinson's Disease

Supervisor: Pandey, Reader: Zhang

Joshi, Seema

Targeting Mitochondrial and Oxidative Vulnerabilities Using Synthetic Analogues of Pancreatistatin in Breast Cancer

Supervisor: Pandey, Reader: Vacratsis

Kazim, Erum

Discrimination of Cysteine from Serine: A QM/MM Study on the Activation step of Cysteinyl-tRNA Synthetase

Supervisor: Gauld, Reader: Vacratsis

Lahoud, Eric

Effects of the 3'-Untranslated Region and Tristetraprolin on the Translation Efficiency of CPB2 mRNA.

Supervisor: Boffa, Reader: Ananvoranich

Lam, Tina

The Design and Synthesis of a "Cage-Like" Phosphine Ligand

Supervisor: Johnson, Reader: Loeb

Matthews, Jacob

Towards C-H Activation and Stannylation using Platinum and Cobalt Complexes

Supervisor: Johnson, Reader: Macdonald

Mohamud, Jamal

Electron Spin Resonance Studies of the Dimerization of 1,2,3,5-Dithiadiazolyl Radicals

Supervisor: Rawson, Reader: Johnson

Namespetra, Andrew

³⁵Cl Solid-State NMR of Hydrochloride Pharmaceuticals in Bulk and Dosage Forms

Supervisor: Schurko, Reader: Rawson

Nari, Jasmin

Regulation of the Transcription Factor KLF7 by Phosphorylation Dependent Ubiquitination

Supervisor: Vacratsis, Reader: Pandey

Ngenzi, Rebecca

Investigations of vinylogous gamma-carbonyl cations equivalents

Supervisor: Green, Reader: Loeb

O'Kane, Jessica

Stretchable Transparent Conductive Electrodes Based on Silver Nanowire / Elastomer Composite Films

Supervisor: Carmichael, Reader: Mutuws

Prochazka, Paul

Liquid Metal for use as Dynamic Electrodes in Intrinsically Stretchable Light-Emitting Devices

Supervisor: Carmichael, Reader: Loeb

Reid, Chris

Characterization of RFP-protein disulfide isomerase as a cell surface oxidative stress sensor.

Supervisor: Mutus, Reader: Ananvoranich

Sands, Jordan

Isolation of a DEAD-box Helicase in Toxoplasma gondii

Supervisor: Ananvoranich, Reader: Vacratsis

Shoshani, Manar

A Mechanistic Investigation of H/D Exchange of Unactivated C-H bonds from a Pentanuclear Nickel Cluster

Supervisor: Johnson, Reader: Loeb

Simard, Daniel

Reduction of Hydrogen Peroxide by Archaeal Thioredoxin Peroxidase: A DFT Investigation

Supervisor: Gauld, Reader: Rawson

Taing, Hi

Towards the Design of Side Chain Free Columnar Discotic Liquid Crystals for Application as Organic Semiconductors

Supervisor: Eichhorn, Reader: Green

Thibodeau, Michelle

Investigations of reactions of nucleophiles with propargyl dicobalt-stabilized alpha-carbonyl cation equivalents

Supervisor: Green, Reader: Johnson

Xiao, Yiming

Concentrating Soybean Peroxidase By Immobilization On O-Cresol Polymeric Solids

Supervisor: Taylor, Reader: Vacratsis

Yu, Paula

Benzimidazolium Based Molecular Shuttles

Supervisor: Loeb, Reader: Eichhorn

Yu, Jonathan

Towards Stable And Surface Active Metal Nanoparticles By The Surface Confined Cross-Linking Of Ligands

Supervisor: Eichhorn, Reader: Carmichael

Zghal, Omar

Design and Synthesis of Ligands for the Preparation of Amphiphilic Nanoparticles

Supervisor: Eichhorn, Reader: Green

59-410 Final Marking Scheme

Research proposal presentation (Nov. 2012)	5%
Progress presentation (Mar. 2013)	5%
Supervisor assessment of research skill/effort	25%
Undergraduate thesis	30% *
Thesis defence	30% **
Attendance	5% ***

*Undergrad thesis: supervisor 15%; reader 15%

**Thesis defence: coordinator 5%; supervisor 10%; reader 15%

***Includes three seminars and weekly departmental seminars

Guidelines for supervisors and readers:

The students have already been evaluated twice on two presentations (research proposal and progress) for a total of 10 possible marks out of 100. If they have attended 12 or more seminars, they will receive 5 additional marks out of 100.

1. Supervisor assessment of research skill/effort

The supervisor will award a grade out of 25 possible marks the takes into account the following factors, which should be equally weighted:

- a. the effort of the student on their project over both the Fall and Winter terms
- b. the background knowledge that the student has obtained with regard to their research area, literature and project
- c. the development and final level of the research skills of the student
- d. the students level of enthusiasm as demonstrated by regular attendance in the office, laboratory, group meetings, literature meetings, etc.
- e. the suitability of the student for future research

2. Undergraduate thesis

Both the supervisor and reader should award a grade out of 15 possible marks on the written thesis. The following factors should be taken into account:

- a. thoroughness of literature review and project details
- b. organization of introduction and results and discussion
- c. overall presentation
- d. quality of figures, tables and diagrams
- e. appropriate bibliography

3. Thesis defence

The supervisor, reader and course coordinator will award grades up to a maximum of 10, 15 and 5 marks respectively. The following factors should be taken into account:

- a. clarity of oral presentation
- b. quality of slides
- c. reviewer's perception of student's understanding of research project and broader context/impact
- d. student's responses to questions

59-410 grade sheet - research supervisor - page 1 of 2

Please see the guidelines for supervisors and readers before filling out this form.

Student Name (Last, First): _____

Supervisor Name: _____

1. Assessment of research skill/effort			
		max. mark	
a.	effort	5	
b.	background knowledge	5	
c.	research skills	5	
d.	enthusiasm	5	
e.	suitability for future research	5	
	Total	25	
Comments:			

2. Written thesis			
		max. mark	
	Total	15	
Comments:			

59-410 grade sheet - reader - page 1 of 1

Please see the guidelines for supervisors and readers before filling out this form.

Student Name (Last, First): _____

Reader Name: _____

1. Written thesis			
		max. mark	
	Total	15	
Comments:			

2. Thesis defence			
		max. mark	
a.	clarity and organization of oral presentation	4	
b.	quality of slides	3	
c.	student understanding of research project and broader context/impact	3	
d.	questions	5	
	Total	15	
Comments:			

Defence questions You may optionally write some of your questions and notes on the back of this page.

Reader signature: _____ Date: _____