November 2009

MONDAY	TUESDAY	WEDNESDA	THURSDAY	FRIDAY	SATURDAY	SUNDAY
						1
2	3 Zhang: Clean Synthesis 2	4	5 Zhang: Clean Synthesis 2	6	7	8
9	10 Zhang: Clean Synthesis 3	11 *Veteran's Day*	12 Zhang: Clean Synthesis 3 *Withdrawal and Pass/Fail deadline*	13	14	15
16	**17** **Cat – CH_3I** **Joe – nuclear fission**	**18**	**19** **Chris F – mercury in coal**	20	21	22
23	24 **Katie – black carbon** **Ronny – Br and O_3**	25	26 *Thanksgiving*	27	28	29

December 2009

MONDA	TUESDAY	WEDNESD	THURSDAY	FRIDAY	SATURDAY	SUNDAY
	1 **Steven – Lake Apopka disaster** **Heng – enzymes as polymer catalysts**	2	3 **Chris T – electric car** **Asha – microwave assisted multicomponent reactions**	4	5	6
7	8 **Jeannine – Green detergents** **Alex – enzyme electrodes** **Jackie – ultrasound as environmental remediation**	9	10 **Dmitry – assessing the "greenness" of some heterogeneous synthesis** **John – the methane cycle**	11	12	13
14 *Classes End*	15 **Samson – cellulose as biofuel** **Whitney – Greening Pt nanoparticles**	16 *Exam Period*	17 ***FINAL EXAM 5:30, location TBA***	18 *Exam Period*	19	20
21 *Exam Period*	22 *Exam Period*	23	24	25	26	27

On the following pages, you will find a schedule for the months of November and December for Chem 471/671. Much of this time is allotted to guest speakers, and to student presentations. Note that, while there are no homework assignments during the weeks without a primary lecturer, the material that is presented in *any* of the course periods is available for inclusion on the final exam – this includes information presented by guest speakers, and by your peers.

Graduate Student Presentations

The presentations will begin December 2nd, and will run through December 14th. We will have up to 2 presentations per class period. You will sign up for presentation times with Dr. Dransfield in his office, on a first-come, first-served basis. However, in order to claim a time slot, you must demonstrate that you have chosen a topic and begun to find the necessary references for your research.

You should aim for a 30 minute presentation. That leaves plenty of time for questions and analysis. We recommend practicing your talk at least once before you present, to be sure you're on the right track in terms of time.

While participation by the audience is not mandatory, students should be aware that asking thoughtful questions during the presentations will be considered as participation in the literature analysis portion of the course.

Topics should be chosen to reflect an understanding of chemistry which affects our environment, and whenever possible, should be linked to at least one of the 12 Principles of Green Chemistry. But the topics available are broad and not strictly defined. Below is a list of sample topics: this is NOT a comprehensive list, nor is it intended to be! Certainly, you should feel free to select one of these broad topics, but you should also feel free to choose something not on the list if the topic is of interest to you. If you are unsure whether the topic you wish to research is appropriate, feel free to run your idea past one of the three professors before you invest too much time. We do not expect comprehensive coverage of a topic in a 20 minute presentation, but you should demonstrate that you are aware of the contemporary literature on the subject, and that your presentation draws from more than one source. Again, this is a summary presentation of a topic or a field, not of a single research paper.

Representative topics include:

- case studies of known environmental disasters (whether manmade or natural)
- the development of specific green synthetic routes or industrial processes
- the environmental impact of an energy source, pollutant, or industrial process
- the state of affairs for a given alternative energy source
- the development of novel batteries
- an analysis of the character of urban air in a specific megacity
- recent developments and future predictions for climate change or environment pollution