

## NMR TRAINING CLASS: AVANCE-600/500/400 LAB TOPICS

### **Lab meeting #1:**

Safety information  
Introduction  
Unix; Irix; xwinnmr  
Getting & Saving datafiles  
Processing data; Inspecting data  
Plotting data (hard copy)

### **Lab meeting #2:**

Setting up for data collection  
Proper FID acquisition parameters  
Acquiring data  
Apodization and other data processing

### **Lab meeting #3:**

Sample changing  
Probe tuning  
Lock  
Shimming  
Setting gains  
Pulse calibration

### **Lab meeting #4:**

T1 measurement

### **Lab meeting #5:**

Homo-nuclear decoupling  
Solvent saturation

### **Lab meeting #6:**

Heteronuclear spectra (C13, P31, N15)  
C13 spectra with NOE, with decoupling, with decoupling & NOE

### **Lab meeting #7:**

2D experiments  
COSY  
HMQC

### **Lab meeting #8:**

2D experiments continued.  
NOESY  
Variable temperature  
Data Archival  
Trouble-shooting

### **Lab meeting #9:**

Review, practice