Bruker AC/AM NMR User's Guide

by

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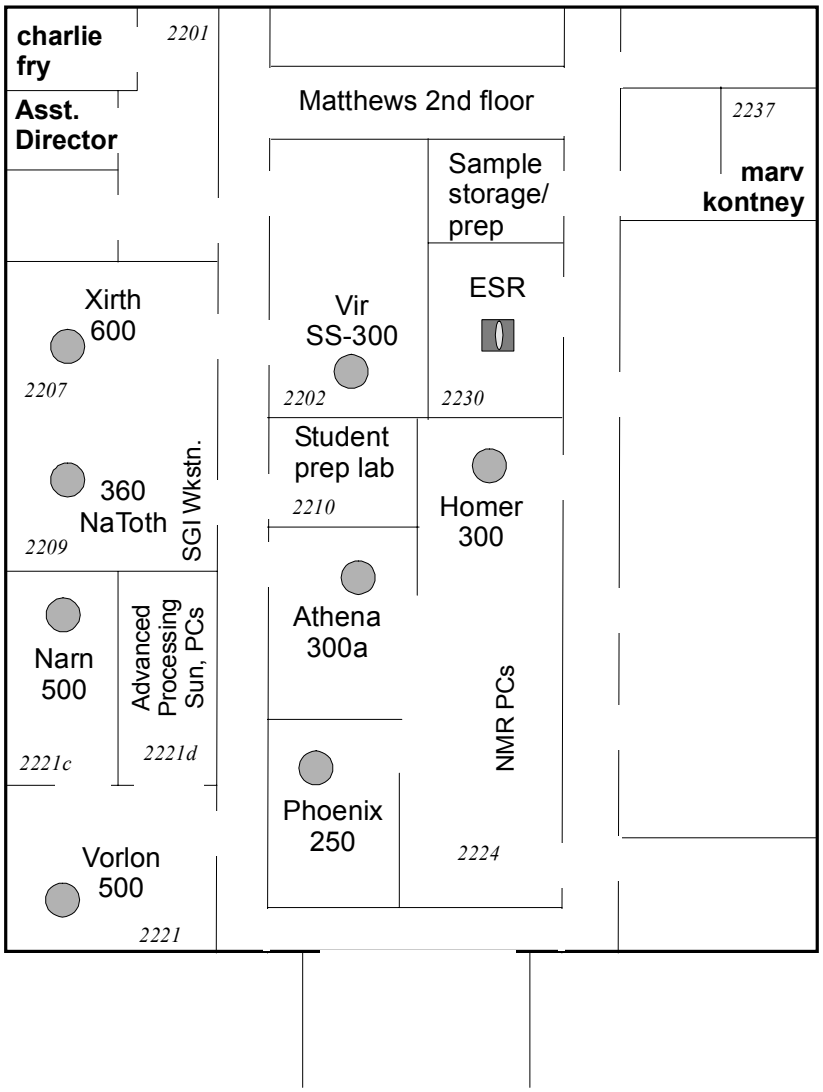
1. UW Chemistry Magnetic Resonance Facility

by: *cg fry*: – updated 20.Aug.2002

I. Facility Layout (2nd floor Matthews)



As of August 2002:

ATHENA	–	AC+ 300	routine $^{1}H/^{19}F/^{31}P/^{13}C$	–	auto-sample changer, quad-nucleus probe
HOMER	–	AC+ 300	routine $^{1}H/^{13}C$	–	$^{1}H/^{13}C$ dedicated
PHOENIX	–	AC+ 250	routine BB VT	–	routine BB ($^{29}Si/^{11}B/^{2}H/^{199}Hg$/etc.), variable temperature

NATOTH	– Avance-360	non-routine BB VT	–	long-term VT, kinetics, concentration limited samples; 5 and 10 mm BB probes, 5 mm inverse probe
VIR	– UNITY-300 (not currently available for use)	solid-state NMR	–	conformational, motions, solid-state packing, catalysts, amorphous and glassy compounds
NARN	– UNITY-500	non-routine ^{1}H/BB VT	–	high-sensitivity, sample-limited (^{1}H < 5 mg, ^{13}C < 15 mg), short-run, sophisticated experiments (e.g., HMQC, DQCOSY, gCOSY, gNOESY); limited access
VORLON	– INOVA-500	inverse exps, 2D studies	–	long-term, sophisticated, gradient-enhanced experiments; combi-chem MAS probe; limited access
XIRTH	– INOVA-600	long-term 2D studies	–	long-term, most sophisticated, gradient-enhanced experiments (e.g., NOESY/ ROESY, HMQC, DQCOSY); limited access
ESPY	– ESP-300	electron spin resonance	–	paramagnetism, free-radical chemistry

PC's
- six PCs surround the main printer GKAR in rm 2224
- NMRSNAP.CHEM.WISC.EDU is a Snap server available via password from anywhere via the web
- BABYLON5 is the Win-2000 server

Sun's
- three Suns are available for data workup
- NARN, VORLON and XIRTH are hosts for the respective instruments

SGIs
- NATOTH (Avance host computer) and GQUAN (for off-line data workup)

II. Facility Personnel

Director, Chemistry Instrument Center			
Prof. Paul M. Treichel	Rm. 6359A	262-8828	treichel@chem.wisc.edu
Director, Magnetic Resonance Facility			
Dr. Charles G. Fry (Charlie)	Rm. 2203	262-3182 o 276-0100 h	fry@chem.wisc.edu cgfry@facstaff.wisc.edu
Associate Director, MRF	currently vacant		
NMR Engineer			
Marv Kontney	Rm. 2210	262-0563	marv@chem.wisc.edu
ESR Engineer			
Roger Clausen	Rm. 2225	262-8196	clausen@chem.wisc.edu
Teaching Assistants			
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Mike Birkeland	9th floor new add.	265-7048	birkeland@chem.wisc.edu