

# **Bruker AC/AM NMR User's Guide**

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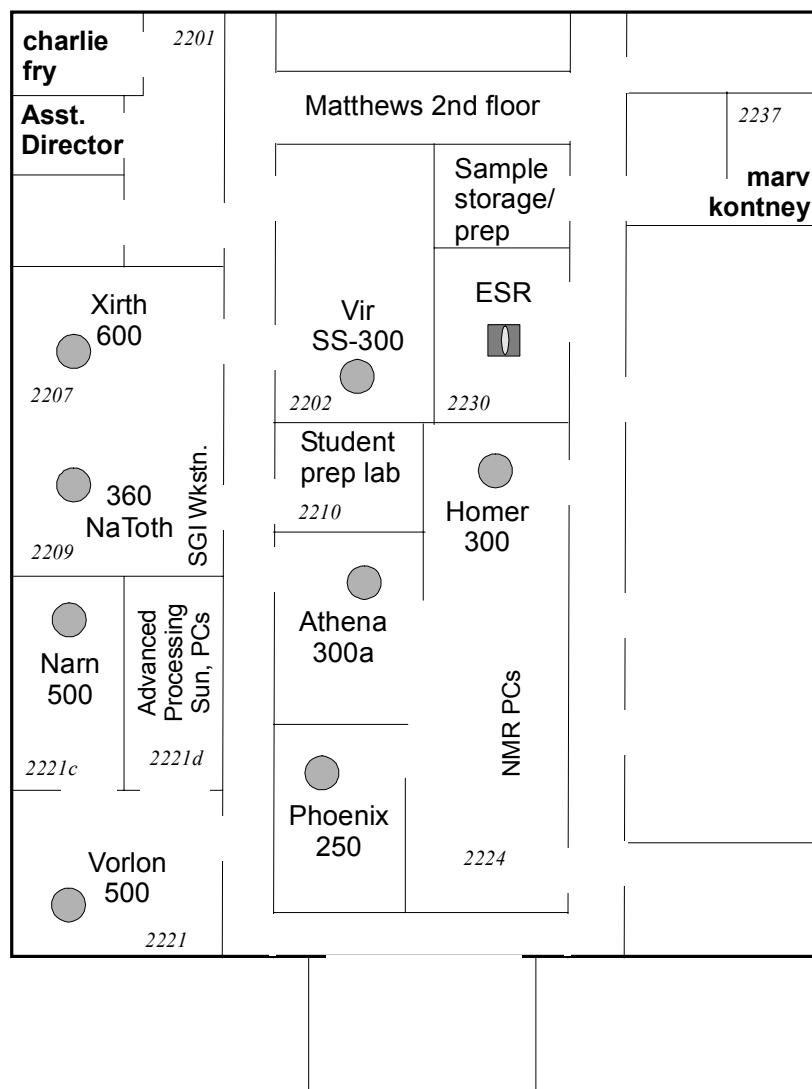
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# 1. UW Chemistry Magnetic Resonance Facility

by: *cg fry*: – updated 20.Aug.2002

## I. Facility Layout (2<sup>nd</sup> floor Matthews)



### As of August 2002:

<b>ATHENA</b>	– AC+ 300	routine $^1\text{H}/^{19}\text{F}/^{31}\text{P}/^{13}\text{C}$	– auto-sample changer, quad-nucleus probe
<b>HOMER</b>	– AC+ 300	routine $^1\text{H}/^{13}\text{C}$	– $^1\text{H}/^{13}\text{C}$ dedicated
<b>PHOENIX</b>	– AC+ 250	routine BB VT	– routine BB ( $^{29}\text{Si}/^{11}\text{B}/^2\text{H}/^{199}\text{Hg}/\text{etc.}$ ), 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 solid-state NMR (not currently available for use) – conformational, motions, solid-state packing, catalysts, amorphous and glassy compounds
- NARN** – UNITY-500 non-routine  $^1\text{H}/\text{BB}$  VT – high-sensitivity, sample-limited ( $^1\text{H} < 5$  mg,  $^{13}\text{C} < 15$  mg), short-run, sophisticated experiments (e.g., HMQC, DQCOSY, gCOSY, gNOESY); limited access
- VORLON** – INOVA-500 inverse expts, 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

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