

Highlights since last Presentation!

(what I've been doing at NCNR while you've been away)

Outline

1. Safety
2. Inventoried EVERYTHING
3. Maintenance on existing Lab equipment
4. Keeping all labs cleaned & stocked (daily!)
5. Maintenance on SE equipment (CCRs and helping others)
6. Purchased Equipment
7. Cross Training
8. Special Projects 😊
9. Summary

New Eyewash Stations installed in all Labs (except B189, E131, and G100-1)



Thanks Polly McCarthy!

A127 had the floor tiles mitigated!

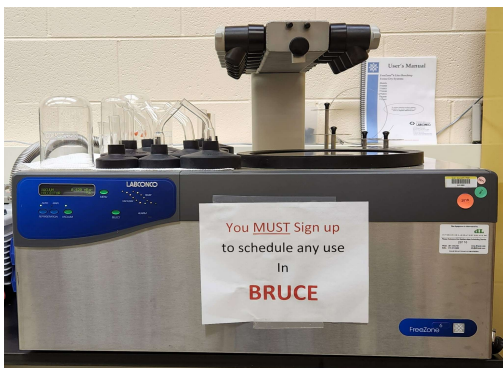
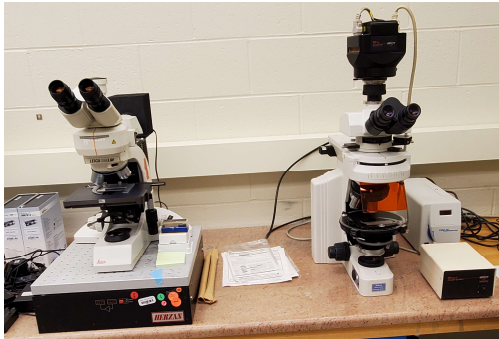


Most Labs now contain a Hot Plate, Roller/Mixer, Drybath, Vortexer, Sonicator, & Balance as standard equipment

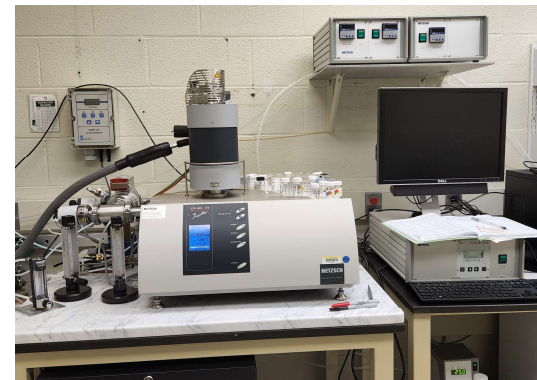


More inventory spreadsheets!

- Rectangular Quartz Cell Inventory
- Banjo Cell Inventory
- Ti Cell Accounting SANS
- NSE Cell Inventory
- Characterization Accessories options
- Lab Supplies Physical Inventory (Trailers, Basement, E-wing Closet)
- Lab Equipment Inventory
- Deuterated Inventory
- Swagelok and VCR Inventory...

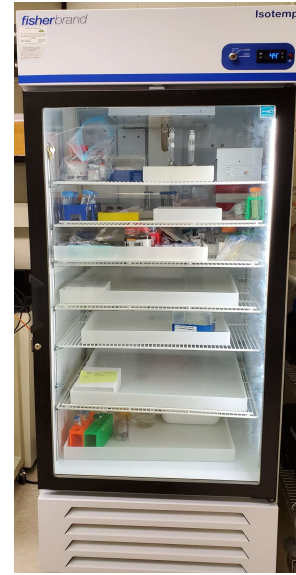


PM'd and serviced





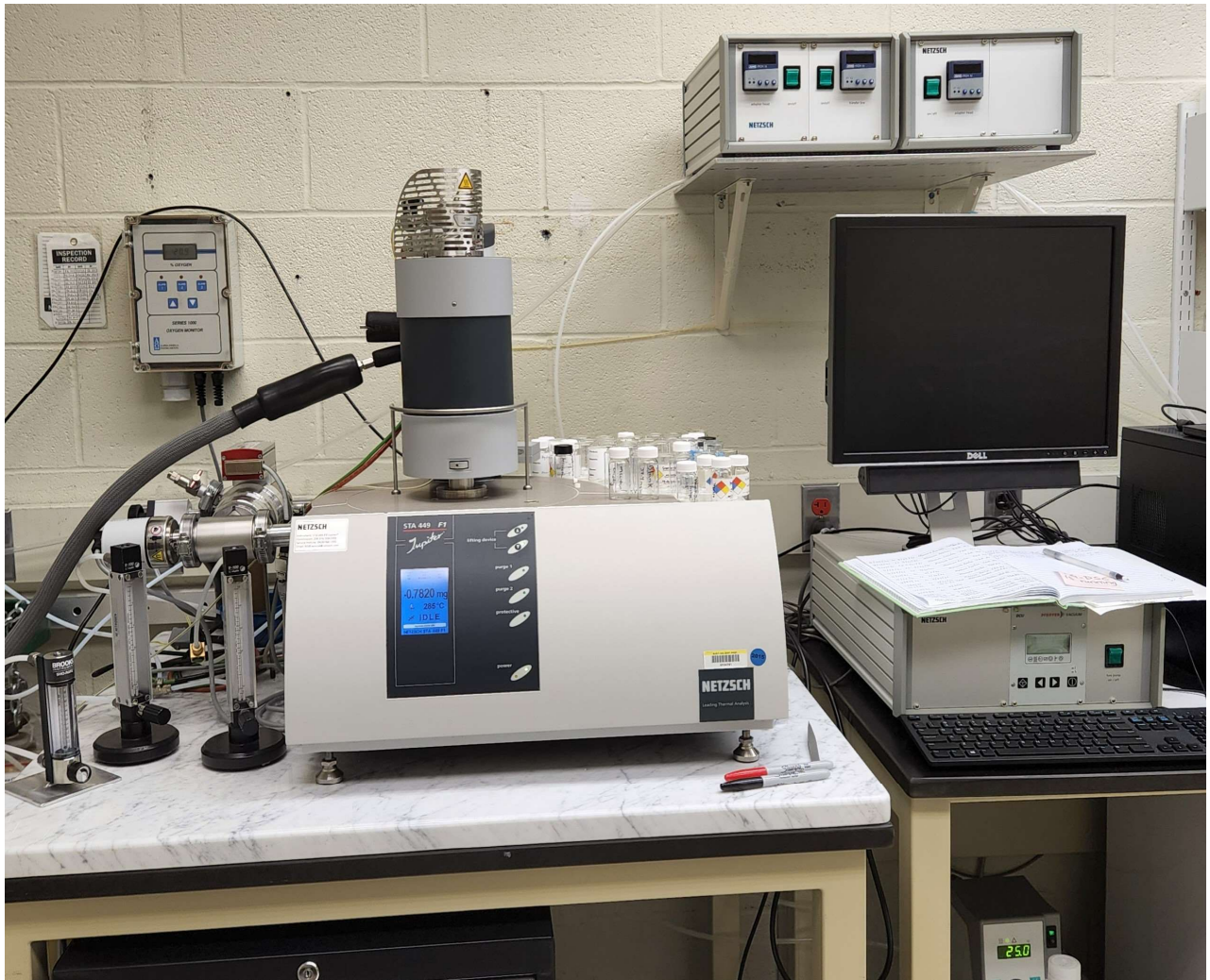
PM'd and Calibrated





The -80C ° and -40C ° freezers and 3 large refrigerators are also now under a new service contract!

TGA in A115
was
serviced,
PM'd and
calibrated in
July of 2022



Mass
Spectrometer
is on the way
for the TGA!



The DLS was given its final service in June of 2022



We have
purchased a
Labconco
RapidVap
N2/48 Dry
Evaporator!



(Should be onsite before the Holidays!)

A new oven for volatiles!



VDL23, volatile safe 100C max
Not currently assigned to a
specific Lab...

A new oven!

This replaces the 300C
Yamato that was in E132
(which failed!)



a new Yamato 300C

A new oven!

This means we have a drying
AND a vacuum oven in A115!

a new Yamato 200C



3 new Ultrasonic baths!

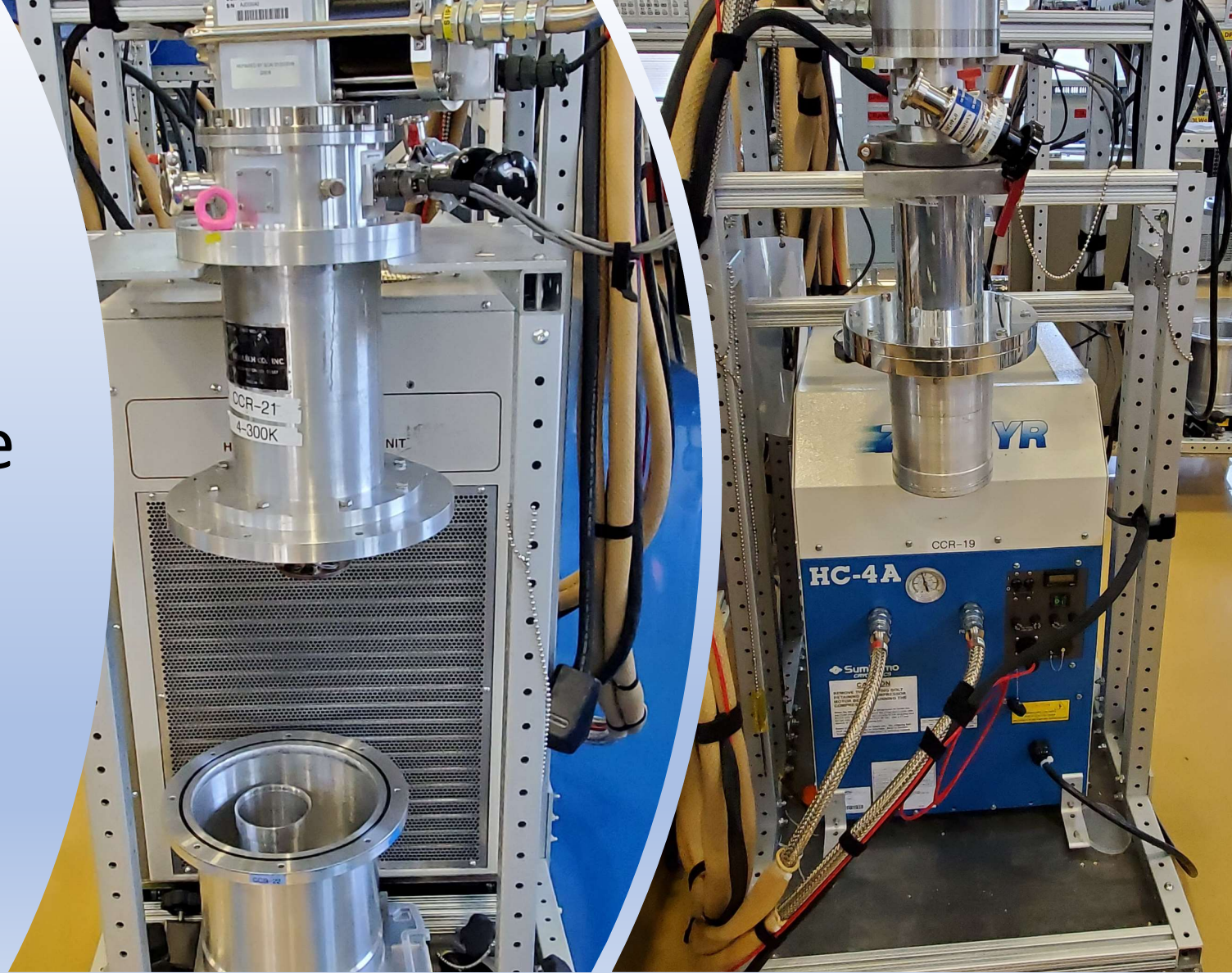
One in E135, one in E134,
and a spare out in the North
Trailer!

0.75L



Cross Training

Annual and
Basic
Maintenance
on CCRs
Completed



Worked with Alan Ye on 9T magnet and with Cedric Gagnon on testing the manual for same.



More cross training 😊

- SAXsess and XRD filter changes as/when needed
- Now giving Vacuum Oven, Torch, and General Lab training
- Crane operator
- Various Lab equipment
- Source User Approved
- Clean-up in B147 (Empty sample cans)
- Various Laboratory Equipment (ie Nanodrop)

Special Project: NCNR web page (with Alan)

The screenshot shows a web browser window displaying the NIST Center for Neutron Research website. The URL is nist.gov/ncnr/sample-prep-labs. The page features the NIST logo at the top left, a search bar, and a menu button. A blue banner reads "NIST CENTER FOR NEUTRON RESEARCH". The main content area is titled "User Laboratories and Sample Preparation Facilities". On the left, there is a sidebar with a "Share" section containing social media icons for Facebook, LinkedIn, and Twitter, and an email icon. Below the sidebar, there are four menu items: "Available Equipment", "General Sample Prep Labs", "Supplies, Chemicals and PPE", and "Laboratory - Forms: Shipping, LEP, etc.". The main text area contains three paragraphs of information about the facilities, safety, and user assistance. At the bottom, there is a logo for CHNRNS (Center for High Resolution Neutron Scattering) with the NIST logo.

User Laboratories and Sample Preparation Facilities

- Available Equipment +
- General Sample Prep Labs +
- Supplies, Chemicals and PPE
- Laboratory - Forms: Shipping, LEP, etc.


User Laboratories and Sample Preparation Facilities

Most experiments conducted at the NCNR require a level of onsite sample preparation or support. To facilitate these experiments, the NCNR provides a series of well supplied laboratories. Many of the laboratories are general use laboratories that are accessible to anyone who has completed the NCNR laboratory training; however, some of the laboratories have additional access requirements. If you need to access one of these laboratories, please make arrangements with your local contact.

Safety is the top priority at the NCNR: the only good experiment is a safe one. New users are required to take a short laboratory safety course before using any laboratory facility. Not every safety regulation can be touched upon in this short course: in doubt, please ask your local contact or laboratory responsible. Safety infractions will not be tolerated.

Many users visit the NCNR and each experiment is equally important. To ensure every experiment runs smoothly, please only use the laboratory space assigned to you and sign out any equipment you use. If you require more space, or have any other concerns, please do not hesitate to ask your local contact for assistance.

Our goal at the NCNR is to maximize your neutron beamtime by providing you with the best support and equipment possible.



nist.gov/ncnr/sample-prep-labs

s Manuals

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Name	Date modified	Type	Size
1800-42 series_100_plastic_gloveboxes_...	2/18/2021 11:03 AM	Adobe Acrobat D...	1,794 KB
Accucare FF6 Refrigerator_User_Manual.p...	2/19/2021 1:21 PM	Adobe Acrobat D...	541 KB
ACROSS ACCUTEMP SERIES VACUUM OV...	2/18/2021 3:50 PM	Adobe Acrobat D...	2,733 KB
amicon-stirred-cells.manual.pdf	2/18/2021 3:32 PM	Adobe Acrobat D...	501 KB
AR25 pH meter manual.pdf	2/18/2021 12:51 PM	Adobe Acrobat D...	1,198 KB
Barsks Microscope_manual.pdf	2/18/2021 1:12 PM	Adobe Acrobat D...	472 KB
BiochemGARD_Manual.pdf	2/18/2021 10:40 AM	Adobe Acrobat D...	579 KB
c1008P-myfuge-mini-manual.pdf	2/18/2021 10:01 AM	Adobe Acrobat D...	285 KB
Coy Dry-Glove-Box-Instruction-Manual-0...	2/18/2021 12:24 PM	Adobe Acrobat D...	264 KB
Dynapro NanoStar.pdf	2/18/2021 9:35 AM	Adobe Acrobat D...	12,553 KB
fisher_isotemp_oven_instruction_manual...	2/18/2021 3:53 PM	Adobe Acrobat D...	437 KB
Forming Gas SDS.pdf	4/23/2021 9:30 AM	Adobe Acrobat D...	149 KB
Hanna pH meter 5221-manual.pdf	2/18/2021 12:58 PM	Adobe Acrobat D...	3,429 KB
HEPA Labconco Glovebox Manual.pdf	2/18/2021 12:21 PM	Adobe Acrobat D...	1,156 KB
Immersion Circulators-UV-Vis-Standard-I...	2/26/2021 9:49 AM	Adobe Acrobat D...	4,243 KB
Inert Purelab GB_manual.pdf	2/18/2021 12:31 PM	Adobe Acrobat D...	3,516 KB
JEIO OF-02G Convection OVEN manual.pdf	2/18/2021 3:46 PM	Adobe Acrobat D...	813 KB
KSV lb_trough_manual.pdf	2/18/2021 2:12 PM	Adobe Acrobat D...	881 KB
LABrep Freezer Manual.pdf	2/19/2021 1:38 PM	Adobe Acrobat D...	511 KB
LABrep Refrigerator Manual.pdf	2/19/2021 1:26 PM	Adobe Acrobat D...	609 KB

Now have electronic User Manuals for ALL lab equipment!

Working with Alan to finish updating the web pages...



Special Project!

Titanium Sans Cell: The Saga Continues!

Please turn in any Ti cells that are still signed out!
Barcoding is in process!
(Thanks, Cedric Gagnon!)

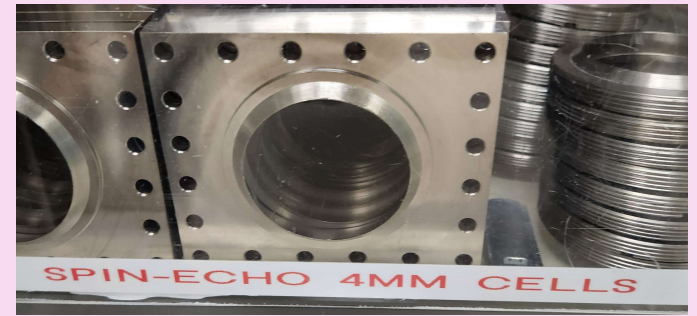


	B	C	D	E	F	G	H	I	J	K	L	M	N
	23-Jul-21												
	path length	total count	number		signed out/in repair	MIA	unaccounted for		TOTAL	%		ACTUAL	
			in box	%			#'s (X) + (L)	%				Box ct	
	0mm	90	59	66%	23	0	8	9%	90	100%		59	
	1mm	320	194	62%	131	6	17	5%	336	105%		188	
	2mm	147	113	77%	28	0	4	3%	145	99%		113	
	4mm	73	41	56%	17	0	15	21%	73	100%		41	



Special Project!

Neutron Spin Echo Cell: The Saga Begins!



5/6/2022												
path length	total count	number		signed out/in repair	MIA	unaccounted for		TOTAL	%			ACTUAL
		in box	%			#'s (X) + (L)	%					Box ct
0mm	25	25	100%	0	0	0	0%	25	100%			25
1mm	40	28	54%	4	-12	8	20%	52	130%			40
2mm	36	29	67%	0	-7	7	19%	43	119%			36
4mm	35	28	67%	0	-7	7	20%	42	120%			35

Any suggestion for 2023 Shutdown?

CIMS inventory

Locker inventory

B147 clean-up

Assist SE personnel

Inventory Sheet Updates

Maintain all Labs (daily)

CWP

Summary

1. Safety!
2. Have almost everything inventoried and up to date and will continue!
3. Lab equipment has been calibrated and maintenance performed as required
4. All labs are cleaned, stocked, and waiting for you!
5. Purchased Equipment
6. Performed Maintenance on several types of SE equipment
7. Worked on cross-training within Sample Environment and others and will continue!
8. Special Projects 😊

Thank you for
watching!

