

March 18, 2020, to Present

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

Donna Kalteyer

Since March of 2020, here's what I've been doing:
I've continued to provide general Laboratory support, as well as helping
our Post-Docs.

I 've also been working on:

1. Safety
2. Inventoried EVERYTHING
3. Maintenance on existing Lab equipment
4. Keeping all labs cleaned & stocked
5. Procurement of Equipment
6. Refrigerators and Freezers
7. Maintenance on SE equipment (BLCCRs and training on other equipment)
8. Special Projects 😊
9. Summary

Safety! (Thanks Polly McCarty)



Scheduling a replacement floor for A127 due to floated tiles
All labs have alphabetized Chemicals...

For the start up in June of 2020, to reduce foot traffic, we added the same general equipment to all the E-wing labs



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



E113 Supply closet added at start up to reduce foot traffic



- inventoried**
- created spreadsheet**
- adding columns**
- verifying names**
- verifying part numbers for future**



-Additional bulk supply items in Basement.
-inventoried, etc...



Procurement of 2 vacuum ovens:

Thanks to Juselino for helping to set them up!

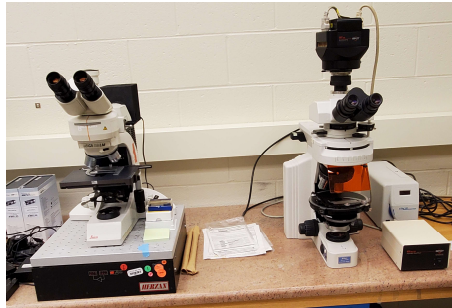


VDL23, volatile safe 100C max and a new Yamato 300C



Milli-Q 7000
Ultrapure
water System
is now in
A121 and
E134!
RFO helped
prep
preinstallation



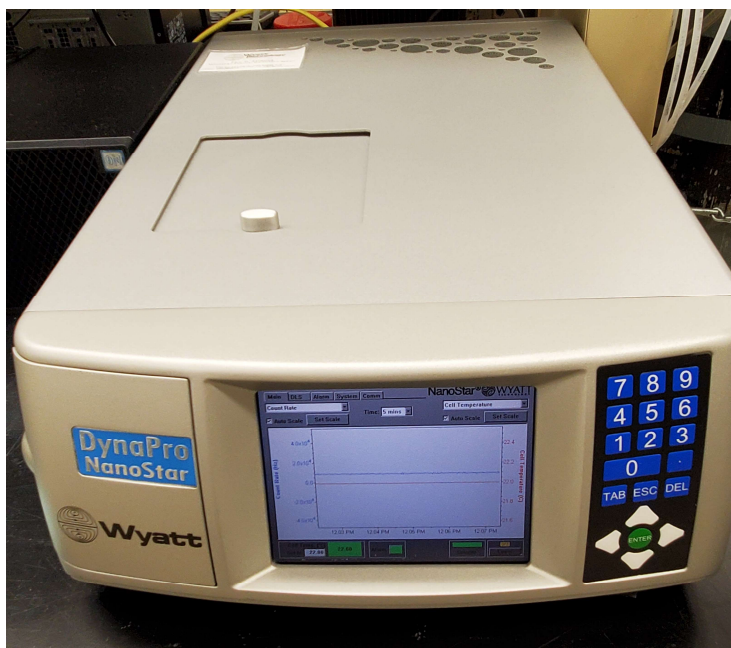


Maintenance was done on the following equipment:

- Scheduled maintenance
- met with technicians
- scheduled BRUCE time
- Juselino was a huge help!



- Juselino added and connected a new chiller
- UV-Vis inspected pre-service contract
- Determined it needed new mirrors and alignment motors.
- Unit has been serviced and is now running and under contract



- DLS was inspected and found to need a software and hardware upgrade.
- DLS had no Dark Scan capabilities and was sent to Wyatt for repairs
- We had a Loaner DLS for 1 month Don Lopez helped with hook up
- Our DLS is back in operation and is running and under contract



All lab refrigerators & freezers have been defrosted and inventoried! (thanks to Liz Kelley and Susan Krueger!)
And the -80C freezer and 3 large fridges are now under service contract!

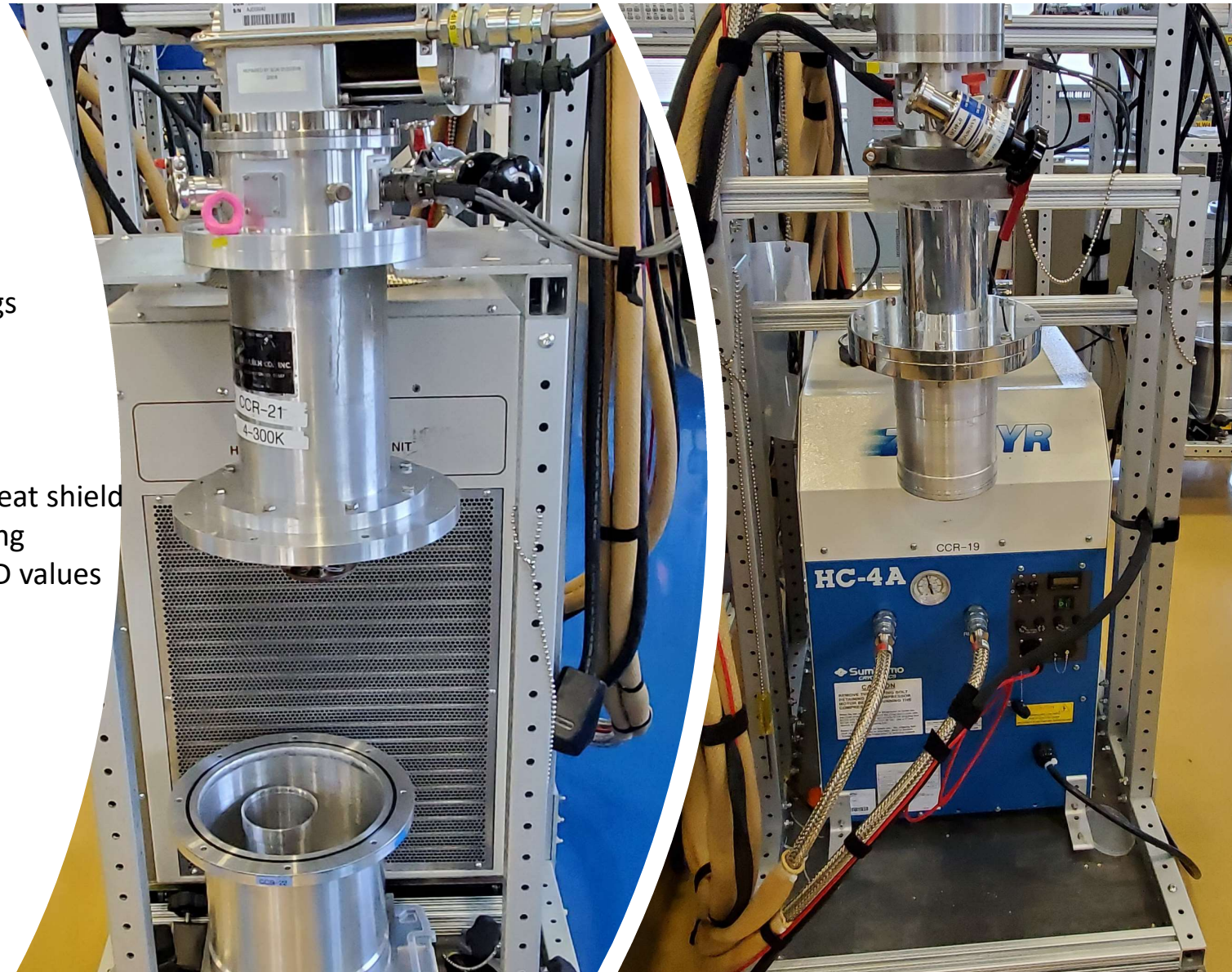
Rigaku Xray
diffraction in E135
was serviced on
3/15/2020

Tanya Dax was a
major coordinator
with this process!



Annual and Basic Maintenance on BLCCRs Completed

- Checked all cables, hoses, fittings
- Cleaned coils
- Cleaned cooling fins
- Flushed water system
- Refilled He as needed
- Cleaned or chased threads on heat shield
- Checked carts were safe for lifting
- 4 Temperature tests to verify PID values
- **Worked on 9 CCRs**



Training	Cross Training
Crane Operator	SAXsess and XRD filter changes as/ when needed
Approved Source User	CCRs, Leak Detector, Vacuum bag sealer, starting on Glove Boxes and Gas loading

Special Project with Alan, NCNR Web Pages:

NIST
NIST CENTER FOR NEUTRON RESEARCH

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; if 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.

CHIRNS
Center for High-resolution Isotope Research in Neutron Scattering

NIST
TOOLS & INSTRUMENTS

Barnstead Lab-Line 3608-5 Oven

Please refer to the [owner's manual](#) for further information.

ORGANIZATIONS
NIST Center for Neutron Research

DETAILS
Campus: Gaithersburg

CONTACT
Yamali Hernandez
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SPECIFICATIONS/CAPABILITIES

- Temperature range: From slightly above ambient to 220°C
- Chamber dimensions: 25.4 cm x 30.5 cm x 24.5 cm (10"W x 12"D x 10"H)
- Volume: 0.020 m³ (0.7 ft³)

NIST
NIST CENTER FOR NEUTRON RESEARCH

User Laboratories and Sample Preparation Facilities

Available Equipment -
Balances
Centrifuges
Characterization Instruments
Furnaces
General Lab Equipment
Gloveboxes
Meters - Conductivity, Humidity, and pH

Ovens

Image	Make and Model	Temperature Range	Location(s)
	Barnstead Lab-Line 3608-5	Up to 220 °C	E132
	Fisher Isotemp Junior 201	40 °C to 200 °C	E131
	Jeio Tech OH-02G	Up to 250 °C	E138, B142

Manuals

Search User's Manuals

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
Barks 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 Ib_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



Special Project! For Reflectometry

Desiccator boxes in A117

*now with individual pumps!

Special Project!

Titanium Sans Cell: The Saga Continues!

- Find cells
- Return all cells give to Cedric
- Cedric sends out for barcoding
- When back, Deep clean cells
- Inventory components, :
o-rings, windows, screws
- Update spreadsheet



	B	C	D	E	F	G	H	I	J	K	L	M	N
	23-Jul-21												
	path length	total count	number in box	%	signed out/in repair	MIA	unaccounted for #'s (X) + (L)	%	TOTAL	%		ACTUAL 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	

Summary

Continued regular duties while doing these:

1. Safety!
2. Have almost everything inventoried and continue to update & improve!
3. Lab equipment has been calibrated and maintenance performed as required
4. All labs are cleaned, stocked, and waiting for your return!
5. Procurements
6. Fridges and freezers are now inventoried and CIMS labels on all non-samples!
7. Performed Maintenance on SE equipment
8. Worked on cross-training within Sample Environment and will continue!
9. Special Projects 😊

Thank you for
watching!

