

# “Long” Shutdown 2017

## Planned Lab Activities

# Shutdown Activities

## ► Categories

## ► Priorities

- Instrument maintenance
- Lab cleaning and organizing
- Lab remodeling and planning
- Safety documentation

## ► Timeline

- Remodel
- Maintenance - NCNR
- Maintenance - General
- Maintenance - Instrum...
- Maintenance - Plant
- Cleaning
- Purchasing
- Documentation
- Training
- CisPro
- Safety

# Shutdown Activities




[+ Invite Team Members](#)


this weekend

Lab

Category

Coordinate with...

Waiting for...

Timeline

Status



In Progress

Lab

Category

Coordinate with...

Waiting for...

Timeline

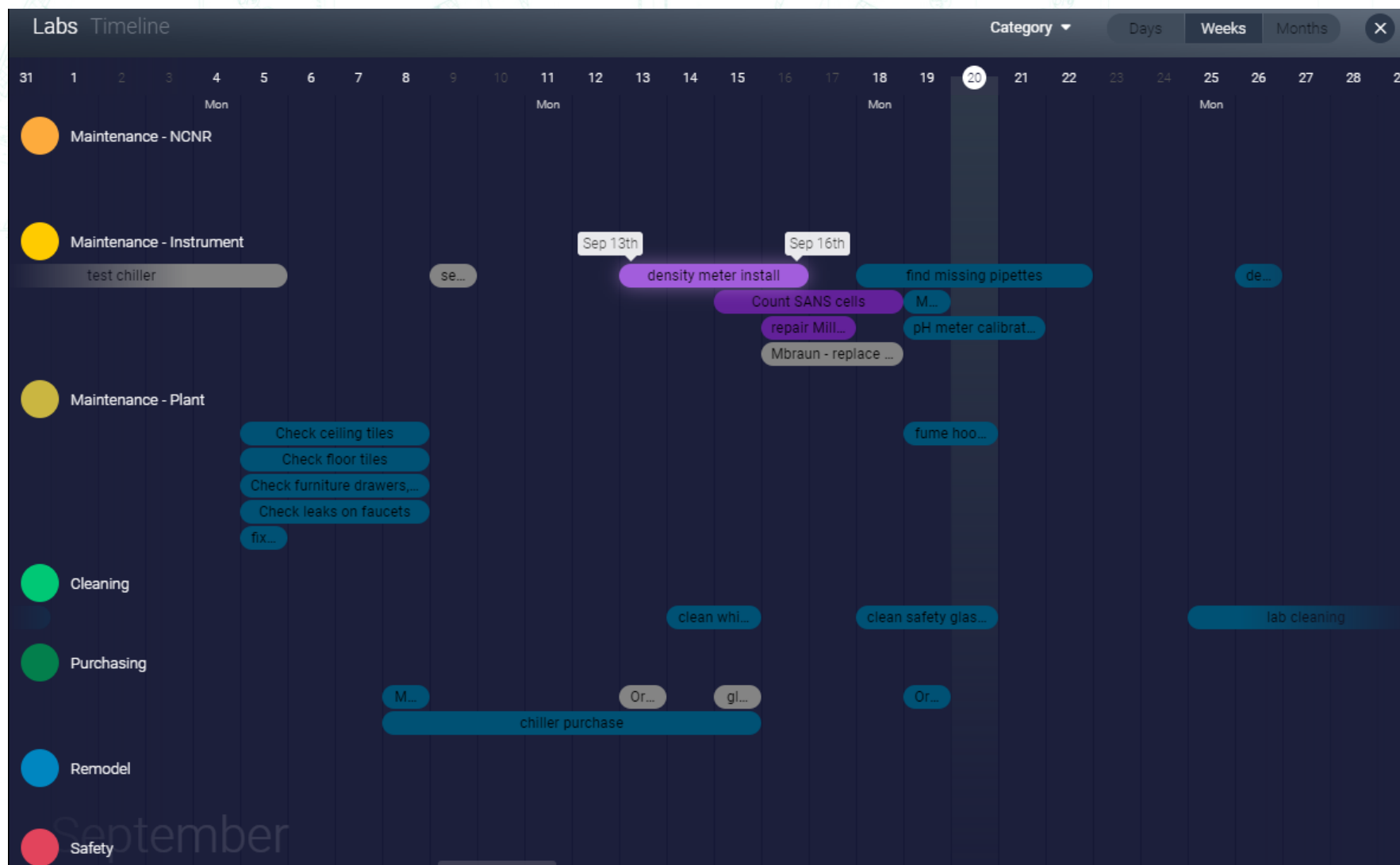
Status



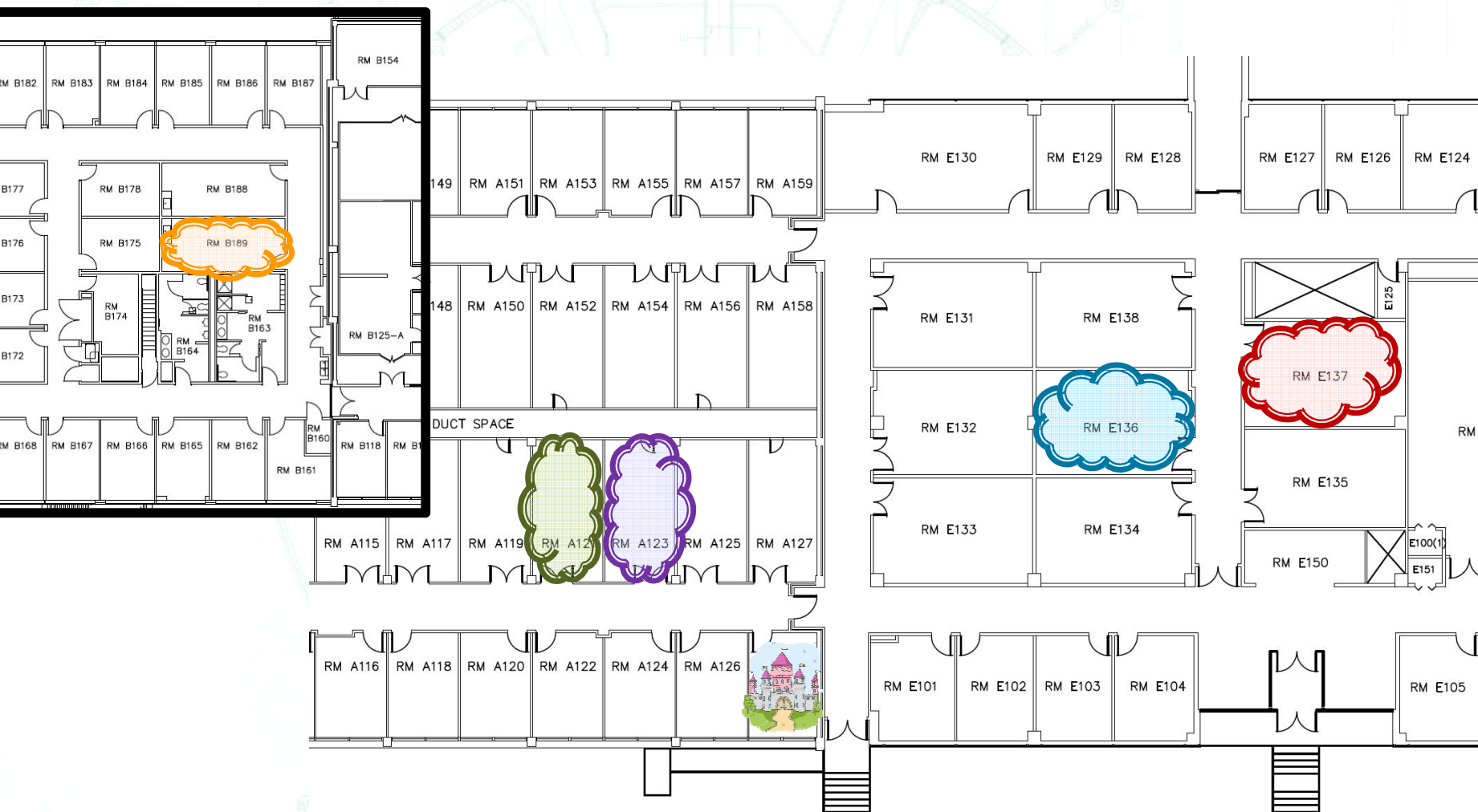
Clean fridge	✓ ①	E132	Cleaning			Aug 28 - 31	Working on it	
Check ceiling tiles	✓ ①	A115 A117 A119 A1...	Maintenance - Plant			Sep 5 - 8	Waiting	
Check floor tiles	✓ ①	A115 A117 A119 A1...	Maintenance - Plant			Sep 5 - 8	Waiting	
Check furniture drawers, doors, hand...	✓ ①	A115 A117 A119 A1...	Maintenance - Plant			Sep 5 - 8	Waiting	
Check leaks on faucets	✓ ①	A115 A117 A119 A1...	Maintenance - Plant			Sep 5 - 8	Waiting	
fix exhaust	①	B142	Maintenance - Plant			Sep 5	Waiting	
Mbraun - send sensors for calibration		E131	Purchasing			Sep 8	Working on it	
chiller purchase	①	B189	Purchasing			Sep 8 - 15	Working on it	
fix gas cylinder disaster	④	E133	Safety	Alan Ye	experiment to finish	Sep 11 - 15	Working on it	
clean whiteboards - verify names		General	Cleaning	Aaron		Sep 14 - 15	Working on it	
find missing pipettes		General	Maintenance - Instrum...	Aaron		Sep 18 - 22	Waiting	
clean safety glasses		General	Cleaning	Aaron		Sep 18 - 20	Waiting	
Mbraun - re-wet h2o sensor		E131	Maintenance - Instrum...		Mbraun - replace get...	Sep 19	Waiting	
pH meter calibration		E134	Maintenance - Instrum...	Aaron		Sep 19 - 21	Waiting	
fume hood calibration	✓ ①	A115 A127 B142 B1...	Maintenance - Plant			Sep 19 - 20	Waiting	
Order 2mm banjos		General	Purchasing			Sep 19	Waiting	?
lab cleaning	①	E137	Cleaning	Missv		Sep 25 - 29	Working on it	



# Shutdown Activities



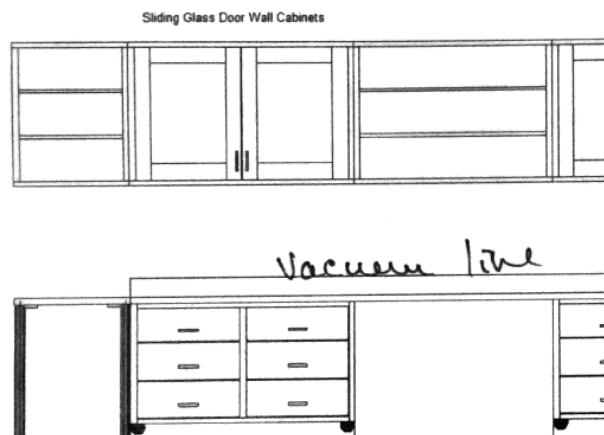
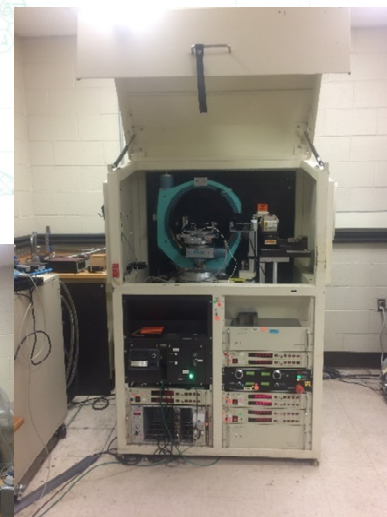
# Lab Remodeling





# Lab Remodeling

- ▶ B189
  - XRD move, install
- ▶ E137
  - SAXS move, install
  - Redo casework
  - Move instrumentation from E136
- ▶ A121
  - New casework install
  - BSC install
- ▶ A123 (2018)
  - Casework ordered



# Instrument Maintenance

- ▶ Gloveboxes
  - MBraun – replace getter, calibrate sensors
  - IT – replace H<sub>2</sub>O sensor
- ▶ XRD – SW issues, filter change
- ▶ MilliQ – biannual maintenance, repair
- ▶ Density Meter – repair, SW issues
- ▶ Spin Coater – repair
- ▶ Other testing and calibration
  - Balances, hot plates, multimeters, vortexers thermometers, pH meters, fume hoods
- ▶ Website of instrument statuses

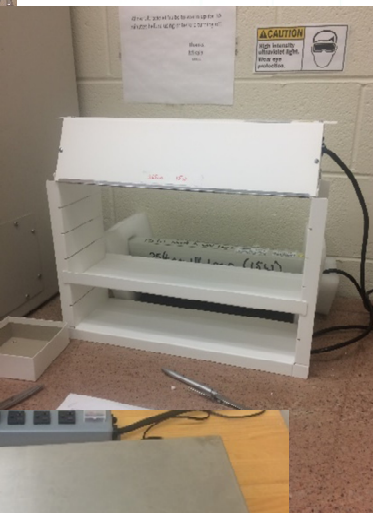


Last updated: 9/19/2017			
Lat	Instrument		Comment
A128	Banjo cells - 1mm		
A128	Banjo cells - 2mm		8 in box
E132	Corrosives hoods		Corrosives tank is fully functional.
E136	Density Meter		Unit repaired; no output to Excel.
E136	DLS		
E136	FTIR		
E131	Glovebox – dry		getter replacement and regeneration o
B142	Glovebox – hot		See Mikala for training
E135	Glovebox – wet		
E134	MilliQ Water		out of service; MilliQ water available in
E132	Spin coater		no display output
A119	UV Lamp		365nm and 254nm available
E136	UV-Vis		
E133	XRD – Rigaku		Occasional software/hardware hangs.



# Instruments – Setup

- ▶ Glovebox – Hot lab
- ▶ UV Light – 365nm
- ▶ Balance – large capacity
- ▶ SAXSess
- ▶ Nanodrop





# Lab Cleaning

- ▶ A-wing and E-wing Labs (10) – professional cleaning
- ▶ Floors cleaned and polished.
- ▶ Repairs to ceiling tiles, floor tiles, drawers, cabinets in 18 labs, and common areas.
- ▶ Countertop repairs



# Safety

- ▶ Train the Trainers
  - Guide Hall Lab training
- ▶ Write/Update Emergency Response Plans
  - All labs + new equipment
- ▶ Write/Update SOPs
  - DENMs
  - Gloveboxes
  - Hot labs
  - Biohazard
  - Furnaces
  - Corrosives
  - Spin Coater
  - Waste
- ▶ Enter LEPs in MML Database
- ▶ CisPro Inventory – chemical waste, expired chems

# Purchasing

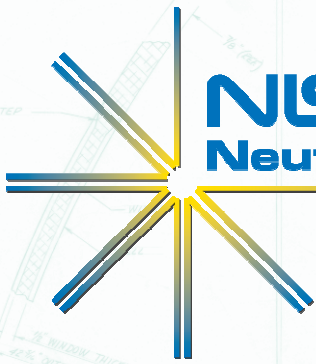
- ▶ In process
  - Casework/BSC
  - Nanodrop
  - Chiller
- ▶ FY2018
  - Ultracentrifuge
  - DI water contract
  - H&F Monitor
- ▶ 2018+
  - Casework for additional labspace





# Summary

- ▶ Lab remodeling and planning
  - Casework and instruments installed and appropriate paperwork complete
  - Plan for the future
- ▶ Instrument maintenance
  - Existing instruments operational and preventative maintenance performed or scheduled
  - New instruments installed and maintenance scheduled
- ▶ Lab cleaning and organizing
  - 16 Labs cleaned, organized, and basic repairs
- ▶ Safety documentation
  - Updated and standardized



**NIST** Center for  
Neutron Research

# Any Questions or Concerns?

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