

Agenda

- **Updates**

 - Support Survey (Jeff Goecker)*

 - Lab Staff updates (Jennifer Monahan)*

 - card reader*

 - defective BOE update (March)*

 - misc. facility info*

 - new equipment*

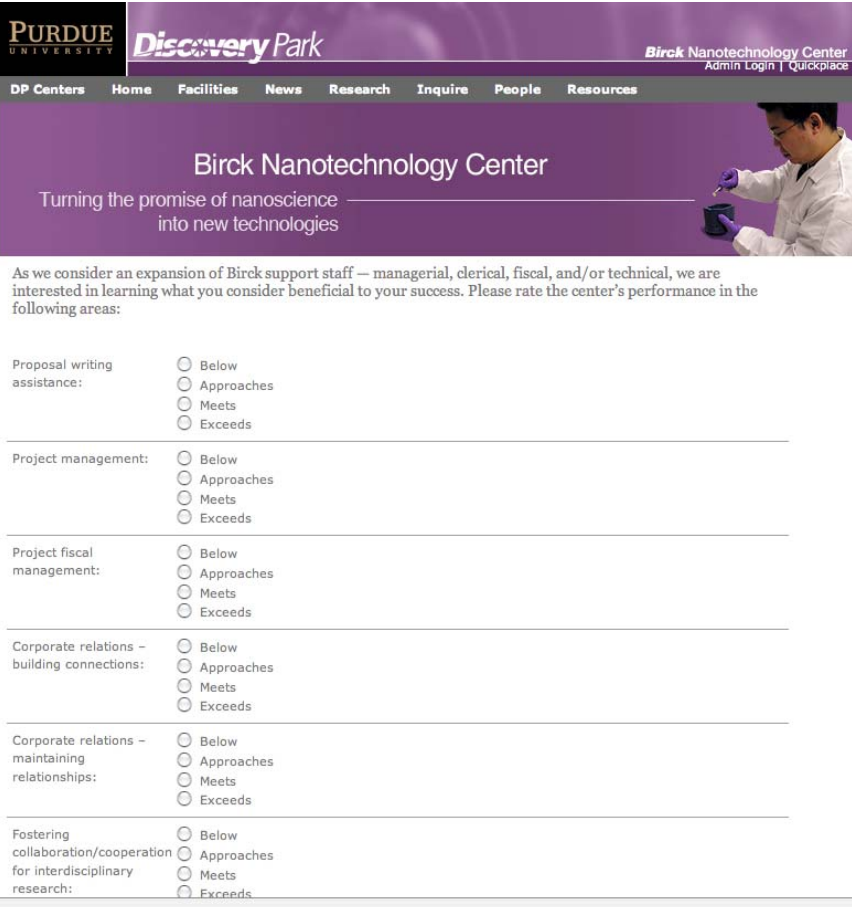
- **Birck Business**

 - (Tim Sands)*

- **Questions, comments, open discussion**

 - (Everyone!)*

Support Needs Survey



The screenshot shows the Birk Nanotechnology Center website with a survey form. The header includes the Purdue University logo, Discovery Park logo, and Birk Nanotechnology Center logo. The navigation menu includes DP Centers, Home, Facilities, News, Research, Inquire, People, and Resources. The main content area features the Birk Nanotechnology Center logo and a tagline: "Turning the promise of nanoscience into new technologies". Below this is a paragraph explaining the survey's purpose: "As we consider an expansion of Birk support staff – managerial, clerical, fiscal, and/or technical, we are interested in learning what you consider beneficial to your success. Please rate the center's performance in the following areas:". The survey form consists of six sections, each with a radio button for each rating option: Below, Approaches, Meets, and Exceeds.

PURDUE UNIVERSITY **Discovery Park** **Birk Nanotechnology Center**
Admin Login | Quickplace

DP Centers **Home** **Facilities** **News** **Research** **Inquire** **People** **Resources**

Birk Nanotechnology Center
Turning the promise of nanoscience into new technologies

As we consider an expansion of Birk support staff – managerial, clerical, fiscal, and/or technical, we are interested in learning what you consider beneficial to your success. Please rate the center's performance in the following areas:

Proposal writing assistance: Below Approaches Meets Exceeds

Project management: Below Approaches Meets Exceeds

Project fiscal management: Below Approaches Meets Exceeds

Corporate relations – building connections: Below Approaches Meets Exceeds

Corporate relations – maintaining relationships: Below Approaches Meets Exceeds

Fostering collaboration/cooperation for interdisciplinary research: Below Approaches Meets Exceeds

- Collection of data via BNC website
- Will begin the week of 5/19/08
- Will measure needs in managerial, clerical, fiscal, and/or technical staff
- Secure login - Purdue career account

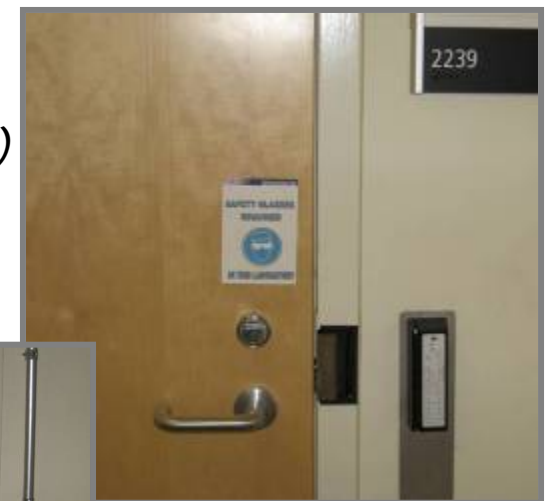
Card Reader System

The installation of the BNC Card Reader System has begun

- *Birck ID swipe cards will replace keys.*
- *Lab doors and Galley doors for each lab will still be paired.*
- *YES, the outside west entrance will have a swipe card entry.*

Tentative schedule:

- *2nd Floor West – April 14 – May 9 (completed)*
- *2nd Floor East – May 12 – June ?*
- *1st Floor West – June ? – July ?*
- *1st Floor East – July ? – August ?*



Staff Offices

Over the summer several staff offices will move

- *Annie Cheever will move to a reception area near the skywalk between Birck and Bindley.*
- *Ira Young has already moved to BRK 2251*
- *Engineering Staff will move from their current offices outside the cleanroom to the NW Suite (BRK 2287).*



Acid Supplier

BNC is switching chemical suppliers for stock acids

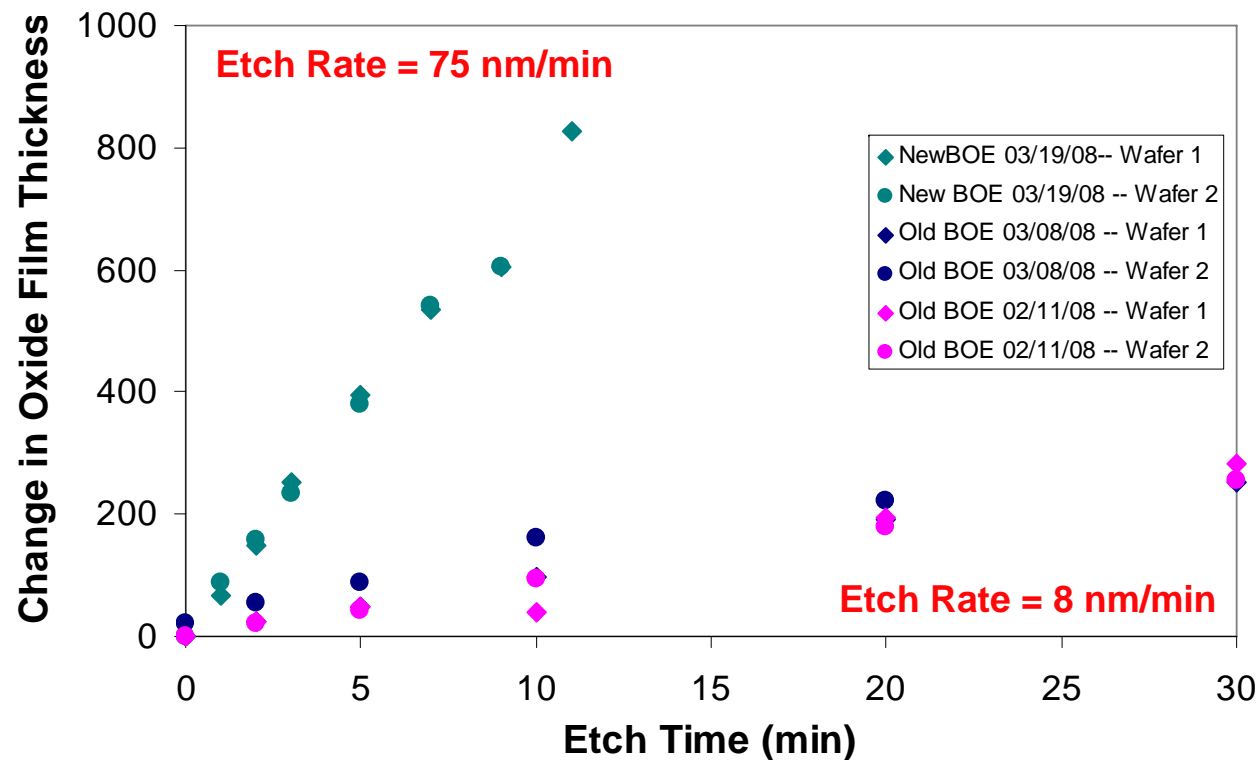
- *In February, our acid supplier ICR had an equipment malfunction and shipped a batch of BOE that was 10x too dilute.*
- *All faulty material has been pulled and was replaced with tested BOE lots dated 03/19/08 and 03/28/08*
- *Demands from BNC for more rigorous quality controls and documentation were unmet.*
- *BNC is phasing out ALL ICR materials and switching to **J.T. Baker** for all acid supplies (HF, BOE, H₂SO₄, HCl, HNO₃). The cross over will occur as each acid stock is consumed.*

Thanks to Anurag Garg & Sean Scott for alerting the BNC Staff of the problem.

Reminder

BNC does NOT conduct quality control experiments on stock chemicals. This is left to the individual researchers.

***ALWAYS record lot numbers & report problems promptly.
(INCLUDE data when reporting problems)***



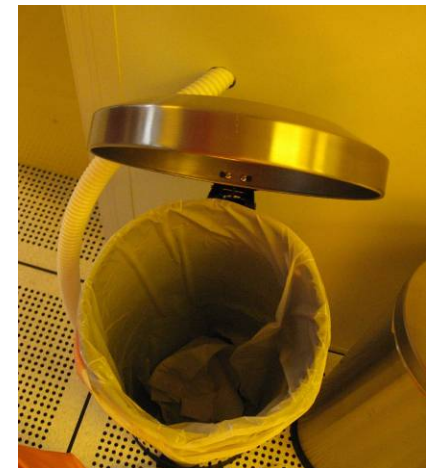
Misc Facility Items

- ***Do NOT move items from the common areas into laboratories! (i.e. trash cans or chairs)***
- ***PLEASE do not SLIDE furniture in hallways or atrium. The floor is getting damaged.***
- ***Sharps containers must have some indication of the content. (Trace Buffer, Trace Photoresist, etc)***
- ***Cardboard boxes must be clearly marked as "TRASH" and placed in the galley or hallway for the custodians to pick up.***



CR Vented Trash Cans

- *Vented trash cans have been installed in the lithography bay of the Cleanroom.*
 - *This should help alleviate solvent odor in Bay M & N*



Small P.R. Bottles

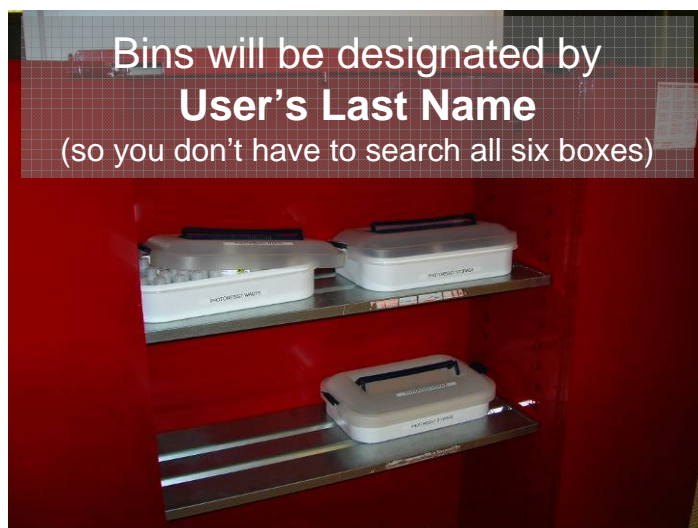
- *Right now our lithography hoods are overflowing with small (often outdated) photoresist bottles.*



Misc Facility Items

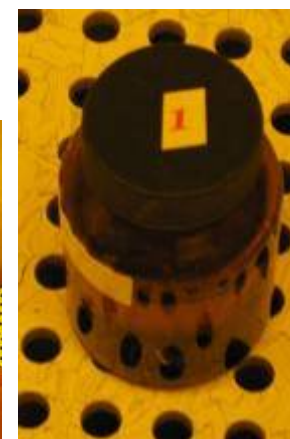


This cabinet is for individual P.R. bottles only



Bins will be designated by User's Last Name (so you don't have to search all six boxes)

- A designated storage cabinet for Photo Resist bottles has been set up in the C.R. (near the spill carts)
- All bottles **MUST** be coded by the owner (stickers will be mounted in cabinet).
- All bottles must be re-coded or discarded at the end of each semester.



1 = Spring2008
2 = Summer2008
3 = Fall2008

- Bottom shelf has box for old bottles that you want sent for waste

New Equipment

New equipment is posted on the BNC Website.

Recent additions include:

- *Raith eLine (BRK 1239, Bill Rowe)*
- *Panasonic E620 Etcher (C.R., Hasan Sharifi)*
- *Protemp Horizontal Furnace (C.R., Dan Hosler)*
 - *Wet / dry oxidation tube*
 - *Polysilicon / nitride tube (coming soon)*
 - *Low temp oxide tube (coming soon)*
- *Pyrogenic Oxidation (C.R., Dan Hosler)*
- *Mantis DC Sputterer (C.R., Dave Lubelski & Kenny Schwartz)*
- *Ellipsometer (C.R., Dan Hosler)*
- *Disco Dicing Saw (BRK 2261, Tim Miller)*
- *Olympus Microscope (BRK 2261, Jennifer Monahan)*
- *Electromask Upgrade (C.R., Jeff Grau)*

Coming Soon

Equipment Installs that are in Process

- **Kurt Lesker E-Beam Evaporator (C.R. Dave Lubelski)**
– limited material usage
- **General Use Spinner (BRK 2081, Lisa Reece & Jeff Grau)**

www.nano.purdue.edu → Facilities → Equipment

The screenshot displays the 'Equipment Listing' page on the Birck Nanotechnology Center website. The page is organized into a grid of categories, each with a list of specific equipment. The categories and their associated equipment are as follows:

- DP Centers**: Home, Facilities, News, Research, Inquire, People, Resources
- DP Centers**: Birck Nanotechnology Center
- Equipment Listing** (Filter icon)
- AFM**:
 - Veeco Dimension 6PM
- Anodization**:
 - Anodaban
- Atomic Layer Deposition**:
 - Atomic Layer Deposition
- Biology**
- Conventional Thermal Processes**:
 - Ammonia Anneal
 - Blue M Oven
 - Horizontal Furnace
 - Nitric Oxide Anneal
 - Proorganic Oxidation
- Dry Etching**
- Plasma Enhanced CVD**:
 - Auto PECVD
 - Carbon Nanotube PECVD
- Polishing & Planarization**
- Probe Stations**:
 - Probe Station I
 - Probe Station II
 - Probe Station III
- Rapid Thermal Processing**:
 - Cyclotron RTA
 - Miralux STA
- Sputtering Systems**:
 - Argon Sputterer
 - Nitride sputter system
 - Parkin Elmer 2402 Sputterer
- Dry Etching**:
 - Parkin Elmer 2402 Sputterer
- Etching**:
 - Repton Asher
 - Repton P20 Etcher
 - Plasma Tech Etch
 - SIS AOE DRIE
 - SIS AOE DRIE
 - Xenon Difluoride Etch
- E-beam Evaporation**:
 - Airco E-beam Evaporator
 - CHA E-beam Evaporator
 - Leybold E-beam Evaporator
 - Varian E-beam Evaporator
- E-beam Lithography**:
 - XUV XRL
- Electrodeposition**:
 - Electrodeposition (EAS)
 - Electrodeposition (Invention Applied)
- FIB**
- Field Emission Vacuum**
- F-IB**
- Hall Effect**:
 - Hall Effect MBE
- Imaging Interferometer**
- Metalorganic CVD**:
 - Repton
- SEM**
- Surface Analysis**:
 - Dimetris
 - Omicron DA-60
 - Stellar Dispersimeter
- Surface Profilometer**:
 - Alpha-Step 30
- TEM**
- Thermal Evaporation**:
 - Varco Thermal Evaporator
- Thin Film Coaters**:
 - HVE
- Water Bonding**:
 - Suss 388c Solvotape Bonder
- Wafer Cutting & Dicing**:
 - Disco DAD-2HX Dicing Saw
- Wet Chemical Processing**:
 - Chemical Dura Handle
- Wire Bonding**
- Metalorganic CVD**:
 - MOCVD
 - UHfite - Alkyl
- Wire Bonding**:
 - Wire handler
- Molecular Beam Epitaxy**:
 - Molecular Beam Epitaxy Growth System
- SPM**
- XRD**
- ORF**
- Other/Not Listed**:
 - Contact Analyzer
 - Corbin Joint Dryer (CJD)
 - Dens-Tec Precision Spin Coating System
 - Dens-Tec Precision Spin Coating System
 - Ultratec Bonder
 - Laser-assist and laser annealing
 - Quake SPC system
 - Dens-Tec CVD
 - DS-500000
 - Ultratec Model 40000
 - UV Flood Lamp System

Navigation: [Purdue Homepage](#) [Purdue Search](#) [Campus Map](#) [Purdue Directories](#)

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