UPWARDS for the Future Network

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	 Surface Science Lab - EBL pattern and 2D materials characterization with Dr. Paul Davis and Dr. Corey Efaw (RSVP will be needed) 		2D Davis
	THURS 12:00PM	• Seminar on circuits for sensors and biomedical applications with Dr. Ben Johnson	
	THURS 9:00AM	 KLayout and EBL using SEM with Dr. Ka Srinivasan (RSVP will be needed) 	arthik
	THURSDAY, APRIL 17TH		
	WED 3-4:00PM	 Tech Talk Emma Danielyan, Process Er of Tokyo Electron Family/Work/Life Balance 	ngineer
	WED 2-3:00PM	 Tech Talk with Jeffrey Shearer of Toky Electron Dry Etch 	/0
	WED 1:00PM	 Coffee & Chips: Women Brewing Innov Semiconductors with Nancy Glenn and Amy Fleischer 	vation in d Dr.
	• Electrical Characterization with Dr. Kurtis Cantley • (RSVP will be needed)		rtis

MORE INFO

ADDRESSES

- Administration Building: 1910 W University Drive
- Alumni and Friends Center: 1173 W University Drive
- The SUB: 1700 W University Drive
- MCMR: 1435 W University Drive
- Micron Headquarters: 8000 S. Federal Way

ADDITIONAL INFORMATION ON SESSIONS

Session with Dr. Karthik Srinivasan

 A three-hour demo on EBL, which will include demonstrations of spin-coating, exposure, development, and inspection. Time permitting, a quick overview of using KLayout to create mask designs may be included. Students will learn issues with over- and under-exposure, dose vs resist thickness considerations, and more broadly the tricks to get an SEM to double up as an EBL. This session can accommodate 12 students total in two groups (6 each with a TA) that will rotate between the IML and SEM.

Session with Dr. Paul Davis and Corey Efaw

- The SSL will provide a workshop on AFM characterization for semiconductor applications that includes:
 - Basic AFM topography of semiconductor-relevant samples (e.g., device structures, thin film deposits, etc.) for thickness, surface roughness, and critical dimension measurements
 - Electrical SPM modes (e.g., CAFM/TUNA, KPFM, SCM) for characterizing semiconductor materials and devices
 - AFM-IR for detecting residual photoresist or evaluating area selective deposition (ASD) processes
 - AFM image processing and data analysis
- This session can accommodate 8-12 students total (rotating among the 4 stations outlined above in groups of 2-3).

Session with Dr. David Estrada and Mone't Sawyer

 CVD of 2D materials and characterization. Students would learn the fundamentals of CVD of graphene on copper and transfer to arbitrary substrates. They could then use optical microscopy (transmitted light, reflected light, DIC, and phase contrast) to image, UV-Vis for transmittance, and Raman Spectroscopy to characterize layer number.

Session with Dr. Kurtis Cantley

 In this activity, students will be trained to use a wafer microprobe station to connect electrical characterization equipment to devices on a silicon substrate. They will then learn to set up a semiconductor parameter analyzer to perform electrical measurements on diodes, MOS capacitors, and MOSFETs.

BOISE STATE CAMPUS MAP



CITY OF BOISE MAP

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Hotel Renegade



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OTHER INFO

WHAT TO DO IN BOISE



OUTDOOR ACTIVITIES

- Boise River Greenbelt: A scenic 25-mile pathway along the river, perfect for walking, biking, or birdwatching.
- Table Rock Hike: This short yet intense hike gets you above the city with views of the Owyhee Mountains in the distance. Allow 2 hours to hike.
- Camel's Back Park: A park in a fun neighborhood that has tennis courts, shops and restaurants, and a great (short) hike that gives stunning views of the city.



RESTAURANTS

- Basque Block: Did you know the largest Basque community outside of the European region is in Boise? Check out this area and restaurants like Leku Ona, Bar Gernika, and Bardenay.
- 8th Street: The hub of Boise's thriving dining scene is on this lively pedestrian-only street filled with restaurants and bars.
- Barbacoa: If you're looking for a restaurant unique to Boise, check out Barbacoa! Close to the hotel, it is a one-of-a-kind experience.



CULTURE AND ATTRACTIONS

- Anne Frank Memorial: Visit the Wassmuth Center's memorial to Anne Frank, the only Human Rights memorial in the United States.
- **Basque Block**: A unique cultural district with restaurants, a museum, and festivals celebrating Boise's Basque heritage.
- Idaho State Penitentiary: A fascinating (and spooky!) look at Idaho's Wild West prison history. It is located near the start of the Table Rock hike.

UPWARDS for the Future Network







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