BLD STUDENT LAB

Where you find us:
♦ N322 North Kedzie Hall
♦ When to stop in:
  ♦ 8 a.m. – 5 p.m. any day the University is open.

What we offer you:
♦ 17 computers
♦ Free Printing (for BLD classes only)
♦ A quiet place to study
♦ Tables on the 3rd floor hallway for group study
♦ Food welcome!
♦ Please Recycle!

OUR OFFICES AND LABS
♦ Main office: 3rd floor of North Kedzie Hall on the northwest corner of Farm Lane and Auditorium Rd.
♦ Teaching Laboratories: N330 & N318 North Kedzie Hall & 160 Giltner Hall.
♦ Student Computer Lab: N322 North Kedzie Hall.

ADVISING APPOINTMENT?
Check in at the front desk of the student lab, room N322. Tell us: Adviser name and appointment time.

FALL 2017 IMPORTANT BLDSA EVENTS

September 6, 2017 5pm-6:30pm Join BLDSA for an Open House to meet the E-Board, BLD faculty, eat pizza and enter our raffle!

September 15, 2017 5pm-8pm Meet fellow students, alumni and faculty and get some free burgers, veggie burgers and hotdogs at our Fall Picnic!

September 9, 2017 9 hole Golf Outing with students, faculty and alumni at Forest Akers Golf East Course, 2280 S Harrison Road. $35 for golf & cart, donuts, coffee, lunch and goodie bag. Register on BLD website.

Questions? Call 517-353-7800, Email bld@msu.edu or visit bld.natscilmsu.edu
## People to know

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Email</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Professor</td>
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### Need to make an appointment with your advisor?

1. Go to bld.msu.edu
2. Click the “Students” link on the top of the page
3. Select “Advising” from the drop down menu
4. Click on the “Set up an appointment with your advisor now” link
5. Click “Login”
6. Enter your MSU Net ID and password
7. Select “College of Natural Science (CNS)”
8. Select “Biomedical Laboratory Science”
9. Select advisor from the drop down menu
10. Select the time and day for your appointment
11. You will get an email confirmation after you have made your appointment.

Please check in for your appointment in Room N322 North Kedzie Hall; you will be directed to the appropriate office when your advisor is ready to see you. If you do not see an open time slot that works with your schedule, email bld@msu.edu. Your email will be forwarded to the appropriate advisor.

### Don’t know which advisor to see?

- Michelle Russell: Last Names A-M
- Sue McQuiston: Last Names N-S
- Rachel Morris: Last Names T-Z
- Mariane Wolfe: CLS and LBC coordinate majors.
### 2017/2018 BLDSA Executive Board

<table>
<thead>
<tr>
<th>Role</th>
<th>Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Faculty Advisor:</strong> Dr. Sue McQuiston <a href="mailto:mcquist9@msu.edu">mcquist9@msu.edu</a></td>
<td>Provides mentoring and guidance to BLDSA board members and Students; maintains regular communication with board members; facilitates interactions between BLDSA and BLD faculty and staff; presents updates at BLD faculty meetings; attends all meetings.</td>
</tr>
<tr>
<td><strong>President:</strong> Angela Adamski</td>
<td>Leads all meetings and prepares agendas; facilitates discussions at meetings; minimum weekly communication with faculty advisor; attends all meetings.</td>
</tr>
<tr>
<td><strong>Vice President:</strong> James Carpenter</td>
<td>Oversees membership and event organization; assumes the role of president, if necessary; communicates with president on a weekly basis; attends all meetings.</td>
</tr>
<tr>
<td><strong>Treasurer:</strong> Jonathon Grant</td>
<td>Prepares financial summaries and performs banking duties; attends all meetings.</td>
</tr>
<tr>
<td><strong>Secretary:</strong> Bethany Chung</td>
<td>Prepares minutes from all meetings; track records from all executive board members; attends all meetings.</td>
</tr>
<tr>
<td><strong>Professions Coordinator:</strong> Parker Acevedo</td>
<td>Facilitates contact and projects with laboratory professional societies; organizes group study sessions for BLD classes; attends all meetings.</td>
</tr>
<tr>
<td><strong>Events Coordinators:</strong> Parker Anderson and Alexandra Sehling</td>
<td>Organize and lead BLDSA for all events; attends all meetings.</td>
</tr>
<tr>
<td><strong>Advisory Members:</strong> Liz Porell and Anika Sasinski</td>
<td>Experienced former E board members who help incoming E board get started with their planning for the academic year; no attendance requirements.</td>
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</table>
Congrats Spring 2017 Dean’s List!

Parker Acevedo
Hope Adams
Abdulrahman Alharthi
Arielle Aughenbaugh
Olivia Bayer
Meghan Caterino
Shicheng Chen
Madi Corda
Alex Cornell
Megan Cutting
Macy Dahnke
Andrew Davidek
Sydney Dudley
Lysic Eldridge
Luis Espinosa
Trisha Franklin
Amy Freeland
Austin Frisch
Kellie Gelmini
Joe Giacchina
Donald Gusfa
Dean Hamelink
Edward Han
William Hanrahan
Ashley Hare

The Stevens Award in Medical Technology

P1) L-R: Shawn Maloney, Tayler McCord, Kaylen Poppe, Leslie Thompson P2) L-R: Erin Gumpper, Dr. John Gerlach

The Stevens Award in Medical Technology is presented each semester to graduating seniors with the highest grade point average in their major (BLS, CLS), in honor of Bertram E. Stevens. Each recipient of the award receives a plaque and monetary award. Student name and year of graduation is added to a publicly displayed plaque in North Kedzie Hall.

CLS Major: Kiera Fisher (not pictured) & Erin Gumpper

Biomedical Laboratory Diagnostics Outstanding Senior Award
The Biomedical Laboratory Diagnostics Alumni and Friends (BLDAAF) Outstanding Senior Award is presented each semester to a graduating senior who shows initiative and dedication to the profession. Grade point average, leadership ability, and technical skills are taken into consideration when choosing a candidate for this award. The recipient receives a plaque and monetary award. Student name and year of graduation is added to a publicly displayed plaque in North Kedzie Hall.

CLS Major: Tayler McCord & Kaylen Poppe
Dr. Leonel Mendoza, an Associate Professor in Biomedical Laboratory Diagnostics, has assembled a research team of nine undergraduate BLD students to study the normal microbiota of eyewash stations located in teaching and research laboratories at Michigan State University.

Our central research questions are:
1. What is the eye-wash station normal microbiota?
2. How many different types of microbes (bacteria, fungi, others) inhabit the surfaces of these devices?
3. Is the surface of the eye-washers an ideal microenvironment facilitating the growth of microbes?

To answer these questions our research team will collect microbiological samples from different eyewash stations located in at least four buildings across the MSU campus. During the fall semester we collected ten samples from teaching and research laboratories in North Kedzie Hall. Our preliminary results showed that the eyewashing stations have developed a thin biofilm of microbes, probably due to the constant flushing, which may provide the microbes the essential elements to develop. The first ten specimens collected showed heavily contaminated stations with numerous bacteria and fungi (too many to count on some plates), some of them potential pathogenic species.

This semester, our team plans to interrogate thirty new eyewash stations to investigate contamination levels around campus. The BLD research students also presented their findings at the University Undergraduate Research and Arts Forum (UURAF) meeting on April 7th, 2017 and out of 950 participants were awarded first place. Congratulations!
More than 80 people from across the country attended MSU’s Biomedical Laboratory Diagnostics 90th Anniversary Gala held at MSU’s Kellogg Hotel and Conference Center on April 29th. Alumni of the program spent the day connecting with friends and colleagues, hearing from past directors and celebrating the accomplishments of a program that’s been active since 1926.

“We all came back because we have a familial love for the BLD program, what the program stands for, and what BLD has done for us in our lives,” said Lindsey Wolsinski ('14), a senior technologist at the Henry Ford Hospital in Detroit and the current State Society President. “One of the main things that guided my interest in the BLD program was how much you felt like you were part of a family.”

“If I ever need any guidance, I can always reach out to the BLD faculty for assistance,” Wolsinski added. “The lab where I work is crazy, I love it, and I owe a lot of that love to BLD because they are the reason I am where I’m at today.”

John Gerlach, the current BLD program director, described the event as an opportunity “to bring colleagues and experiences back into the forefront of what people went through, what they did together, and how they shaped their careers.”

The gala began Saturday morning with a bus tour of campus and ended with recollections of six program directors before dinner. Close ties between BLD faculty, students, and professionals were obvious as friends and colleagues shared stories of past collaborations and networked for the future.

Dan Edson (M.S. ’81) attended the event with his wife, Deb. “Kathy Doig (’01-’08 BLD director) was my advisor and professor,” Edson said. “I was fortunate enough to work on developing the first blood test for Legionnaires’ disease.” Edson went on to start a quality assurance lab in his garage in Traverse City, Mich. The American Proficiency Institute grew to be the largest lab quality assurance organization in the United States.

Doug King, (laboratory sciences, ’77) described how his education in the BLD community prepared him for 30 years of work in clinical laboratory sciences and clinical trials. “We grew our lab in Indianapolis from four people to 250 people and were involved with more than 600 global clinical trials, all because of my work here at MSU,” he said.

More recent graduates used the weekend to network with other professionals and find valuable resources for their own work. Kristina Martin (B.S., ’02; M.S., ’08), now the clinical pathology operations manager at the University of Michigan in Ann Arbor, was able to find speakers for future professional meetings and gained valuable insight from BLD alumni about how to manage the day-to-day flow of operations in a large lab.

“BLD focuses you to be able to do a job, develops leaders in the lab and encourages being part of professional societies beyond the classroom,” Martin said. “I would not have the job I do today if it weren’t for my graduate degree and MSU.”

“I can’t tell you enough about what this program has done”, added Rosemarie Brichta, (medical technology, ’82) who flew in from Texas for the Gala. She was a system educator for a 26 hospital core laboratory prior to retiring. “It creates this yearning to continually help people and to be in the health care field in whatever capacity you choose.

“The Gala is all about connections,” Brichta continued. “It’s about bringing alumni together and making young alumni feel their importance and how they need to come back home. You just never forget your time here at MSU. My husband and I are planning to get back to our roots. We will retire here in a couple of years.”
You never know where you might find an MSU BLD graduate! During summer break, I was offered an amazing opportunity to travel to China to teach children at the Beijing Aquarium. Just before I left, I heard that one of our former students, Jenna Li, was living near Beijing working for her mother’s company. We got in contact, and Jenna graciously offered to take me sightseeing. We spent a morning at the Summer Palace followed by Peking duck at a beautiful restaurant. Jenna was an amazing tour guide, explaining the significance of the landmarks and art that we saw. I learned so much!

During our hike up over the rocky hill at the Summer Palace, we managed to get a little off track. Distracted by all the amazing sights, I led us up onto some boulders. As we looked down from our perch on the boulders at the correct path, I said, “Oh well, Jenna, we are BLD. We can do things the hard way.” Jenna swiftly replied, “No, BLD students do things the right way. This is NOT the right way!” It’s definitely better to do things the right way, especially when you are wearing white linen pants! Luckily, we managed to find our way back to the path without my falling and causing an embarrassing incident.

China is a beautiful place full of wonderful people, but my trip would not have been half as delightful without my excellent guide, Jenna.

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**Important MSU Dates**

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<tr>
<th>Date</th>
<th>Details</th>
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<tbody>
<tr>
<td>Sunday, 8/27</td>
<td>Freshmen and Transfer students who attended AOP in JUNE/JULY can move into residence halls beginning at 8 a.m.</td>
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<tr>
<td>Monday, 8/28</td>
<td>Returning students can move into residence halls beginning at 8 a.m.</td>
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<tr>
<td>Wednesday, 8/30</td>
<td>Classes begin</td>
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<tr>
<td>Monday, 9/4</td>
<td>Labor day, University Closed</td>
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<tr>
<td>Thursday, 11/23</td>
<td>Holiday, University Closed</td>
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<tr>
<td>Friday, 11/24</td>
<td>Holiday, University Closed</td>
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<tr>
<td>Friday, 12/8</td>
<td>Classes End</td>
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<tr>
<td>Monday, 12/11 - Friday 12/15</td>
<td>Final Exams</td>
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<tr>
<td>Friday 12/15 &amp; Saturday 12/16</td>
<td>Commencements</td>
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<tr>
<td>Monday, 12/25</td>
<td>Holiday, University Closed</td>
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<tr>
<td>Tuesday, 12/26</td>
<td>Holiday, University Closed</td>
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<tr>
<td>Monday, 1/1</td>
<td>Holiday, University Closed</td>
</tr>
<tr>
<td>Tuesday, 1/2</td>
<td>Holiday, University Closed</td>
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</tbody>
</table>

For more important dates visit [https://reg.msu.edu/ROInfo/Calendar/academic.aspx](https://reg.msu.edu/ROInfo/Calendar/academic.aspx)
Get Hands On Research Experience!

The lecture component of the class covers topics such as scientific ethics and keeping a proper lab notebook. Legal issues, lab regulations, the best ways to present data and the sources of research funding in the United States are discussed. Reading primary literature and practicing lab math are also included. The course finishes with the students presenting some of their own data gathered during the class.

The final lab project is making a buffer from the methods section of a primary journal article—no recipe books or lab manuals in BLD 214L! This course will also build basic laboratory skills for students who want to become more proficient and prepare for higher level lab courses.

Students receive a grade for the course, but they also earn a certificate based upon their competency in the assigned tasks. The certificates include earned badges in lab safety, equipment use and reagent preparation. These certificates provide the students with concrete evidence of their new skills—a great addition to job applications and work portfolios.

When Is BLD 214L offered?
Summer Semester 2017

What prerequisites do I need in order to take BLD 214L?
MTH 103 or higher

Contact your advisor for more information on how to get started!

BLD student Desiree Steward (left), and Shawn Marshick (right) work with BLD teaching specialist Rachel Morris in the newly furnished lab created for BLD 214L.

Want or need Laboratory experience? Interested in research?

By Susan McQuiston

Aimed at making undergraduates competent in basic research and laboratory skills, BLD 214L is different from our other BLD labs. The goal is to develop a skill set desired by research labs on campus and beyond. To that end, principal investigators from life science research labs across campus were surveyed and their responses were used to develop the course goals and objectives. The resulting labs and lectures were designed to build independence and competency in routine laboratory tasks, while at the same time, allowing students the opportunity to make mistakes in a safe environment.