

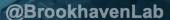


BNL Physics Dept. Safety Introduction

Achim Franz ES&H – LEC - Training Coordinator (Erica Lamar) - 2022

04/04/2022

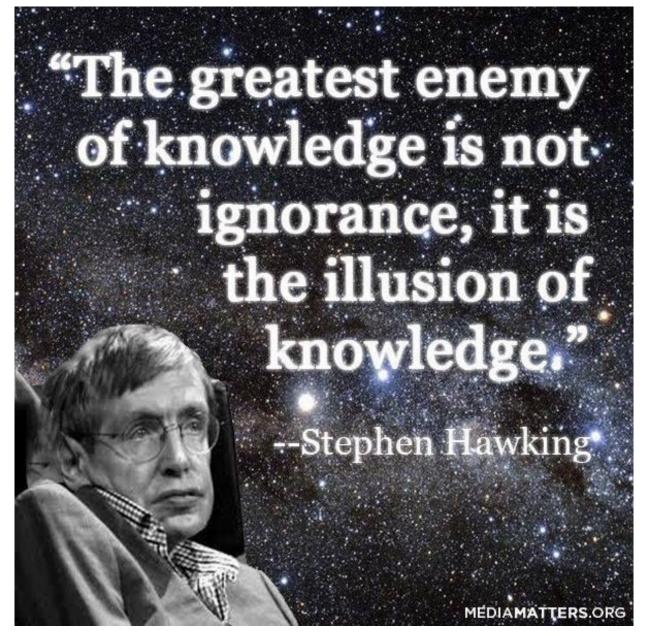




Welcome

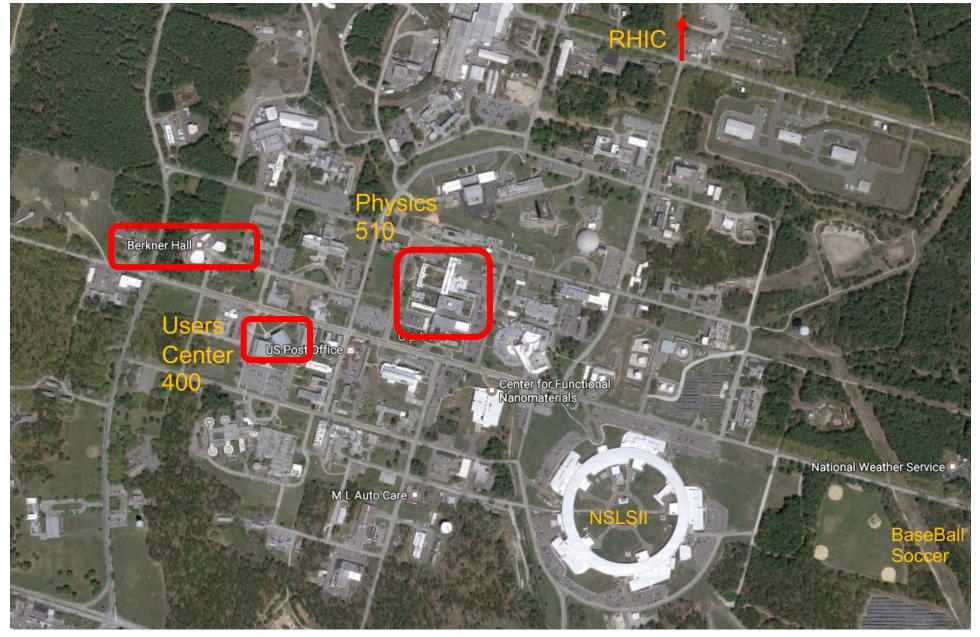
- Learn, meet new people, work, and most of all be safe
- Make yourself familiar with the area, fire alarms, phone,
 ALL the exits, 510 is a large building ...
- Know what to do in an emergency
- There are no stupid questions, only stupid answers
- If you think your question is too stupid to ask, most of the others have the same thought
- Always wear the right gear, PPE, training
- Limit work alone, especially off hours, and not in a lab, check with your supervisor







E. Lamar (x2585), A. Franz (x4750)





E. Lamar (x2585), A. Franz (x4750)

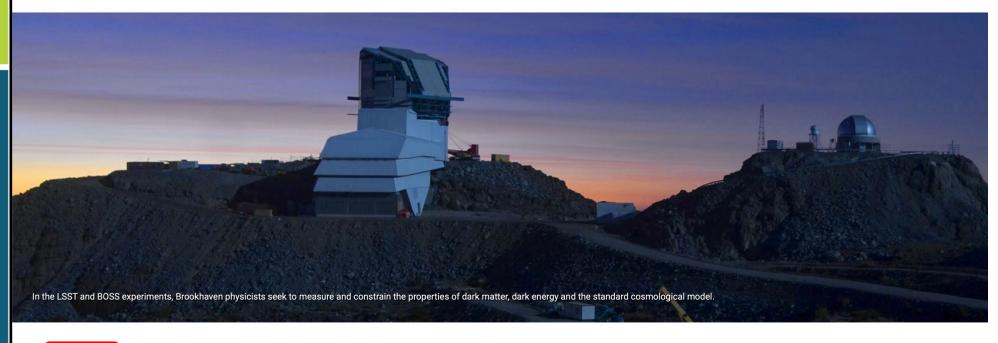
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Physics Department



Nuclear Physics ▼ High-Energy Physics ▼ RHIC ▼ ES&H ▼ NPP I&D Council NPP Directorate



Physics Dept.



Org Chart (PDF)

Committee Members

Event Calendar

Department Groups

Physics Experiments

Nuclear Physics

PHENIX

Responsibile for the operation and physics exploitation of the PHENIX experiment at RHIC.

Responsibile for the operation and physics exploitation of the STAR experiment at RHIC.

Cold QCD

Lead and support of the Cold QCD program at RHIC and the future EIC. This includes the scientific program, hadron polarimetry and the efforts towards the realization of an experimental program at EIC.

High-Energy Physics

Cosmology & Astrophysics

Solving problems in observational cosmology: how to measure and constrain properties of dark matter, dark energy and the standard cosmological model.

Electronic Detector

Studies very rare processes at the Intensity Frontier.

Group members are collaborators on the LHC ATLAS experiment.

Nuclear and Particle Physics Software

Announcements

There are no announcements at this time.

Seminars & Colloquia

Colloquia	Nuclear	High-Energy
There are no	events schedu	led at this time.
☑ Particle Physic	·e	☑ Nuclear Physics
☑ Colloquia		☐ Theory Seminars
		☑ Schools & Lectures

Old Dept. Directory

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Physics Department





Home Nuclear Physics ▼ High-Energy Physics ▼ RHIC ▼ ES&H ▼ NPP I&D Council NPP Directorate

Staff Directory



Filter list by any field...



Syed Haider Abidi OMEGA Group sabidi@bnl.gov



(631) 344-3848, allena@bnl.gov



Dmitry Arkhipkin Nucl & Particle Physics SW (631) 344-4922, arkhipkin@bnl.gov



Ketevi Assamagan OMEGA Group (631) 344-4041, ketevi@bnl.gov



Anthony Baltz Nuclear Theory (631) 344-3853, baltz@bnl.gov



Alexander Bazilevsky Cold QCD (631) 344-3712, shura@bnl.gov



Jaroslav Adam Cold QCD (631) 344-2672, jadam@bnl.gov



Leesa Allen Administration (631) 344-2700, <u>leesa@bnl.gov</u>



Elke Aschenauer Cold QCD (631) 344-4769, elke@bnl.gov



Konstantin Asteriadis **High Energy Theory** kasteriad@bnl.gov



Gaetano Barone OMEGA Group (631) 344-2751, gbarone@bnl.gov



Christopher Bee OMEGA Group cpb@bnl.gov



David Adams Nucl & Particle Physics SW (631) 344-6049, dladams@bnl.gov



Maureen Anderson RHIC/ATLAS Comp. Facility (631) 344-2307, manderson@bnl.gov



Jeffery Ashenfelter jeffery.ashenfelter@yale.edu



Babak Azmoun PHENIX (631) 344-4082, azmoun@bnl.gov



Oleksiy Bazavov obazavov@bnl.gov



Michael Begel Senior Physicist, Omega Group Leader OMEGA Group (631) 344-3403, begel@bnl.gov

Safety & Training Office

Go Find People

Physics Safety Home

General Information

Physics Department Rules Everyone Must Know

Department Safety Policies

Local Emergency Plans

Environmental Management System (EMS)

EMS Web Pages

Information & Aspects (pdf)

Experiment Safety Reviews (ESRs)

Experiment Safety Review

Contacts

Department ESSH Committee

Other Information

Work Permits

Latest ESH Inspection Schedule (pdf)

BNL Occupational Injuries

Memoranda of Understanding

Physics OHSAS 18001

Training for Conference Attendees (pdf)

BNL Site Index

Can't View PDFs?

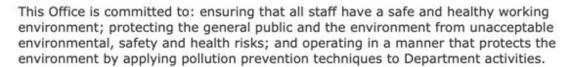
BNL: Departments | Science | ESS&H | Newsroom | Administration | Visitors | Directory

Physics Department Safety & Training Office

Mission Statement - The Safety & Training Office supports research and operations in the Physics Department by providing assistance and coordination in the implementation of Laboratory policy on:



- Environmental Compliance
- · Radiological Protection
- · Integrated Safety Management
- · Work Planning & Control for Experiments & Operations
- · Facility Management
- Self Assessment



For further information contact the Safety & Training Office, Room 1-43, ext. 2585. Specific requirements can be found in the <u>SBMS web pages</u>. Training information and webbased courses are available at the <u>Training Web Site</u>.

Return to Physics Department



Last Modified: April 7, 2021

Please forward all questions about this site to: Erica Lamar



All work at BNL is covered by work permits and Experimental Safety Reviews (ESR). If you work in a lab you need to read and sign the ESR, and take all required training.

Fire Alarm

If there is any indication of danger (signs of smoke, flames, etc.) you should evacuate immediately.

If a fire alarm sounds in your area and you are in imminent danger (visible smoke, flames, etc.) **evacuate immediately**.

If there are no signs of imminent danger:

- Terminate any phone calls or conversations that you are having; they are not more important than your safety.
- Activate the screen saver on your computer(s), e.g. Windows: [Window-key]-L; LINUX: Ctrl-Alt-L.
- Take your keys, cell phone, personal belongings, jacket, laptop, iPad, etc. with you. It may be hours or even days before you can get back into the building.
- Close, but do **not** lock your door.
- Exit the building by the NEAREST SAFE exit.
- Proceed to the outdoor assembly area and report to the person(s) responsible for personnel accountability (your group admin).
- Do not leave the assembly area until directed to do so by the Local Emergency Coordinator (LEC) or Fire Captain.
- Do not enter any building that has alarms sounding.

The outdoor assembly area in building 510 is the front lawn west of the main entrance. The alternate location is the lawn further west, between buildings 510 and 555 (Chemistry – up the hill).

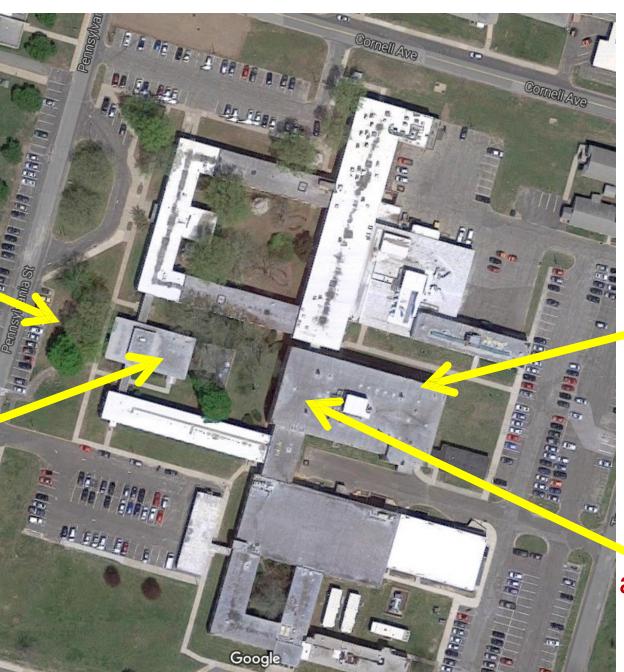
If you can hear a fire alarm, but it is not alarming in your area (hallway), you are not required to evacuate, but check with your colleagues.



Physics Bldg. 510

Outdoor assembly area

large seminar room



3 floor Bldg

3.Floor assembly area



BNL Sirens

If a continuous site siren sounds, report to one of the indoor assembly areas: the Large Seminar Room or 510-3-209B.

If you are not in a building, go to the nearest building. <u>Emergency information</u> is communicated through the IP telephone system (<u>PENS</u>). If an **intermittent site siren** sounds, evacuate the site.

The site siren is tested each Monday around noon. PENS is tested on the first Monday of each month.

More:

- An Automatic External Defibrillator (AED) is located at the main entrance.
- The LEC is: A. Franz (x4750) with M. Lenz (x5423) and R. Burns(x3745) as the alternates. In their absence, the highest-level Department manager serves as the LEC.
- A <u>one-page summary of the Local Emergency Plan</u> is posted throughout the building.
- The full Local Emergency Plan is available on the Physics Department web pages.
- Remember: 510 is in the BNL GREEN ZONE (Protective Action Zone).
- The <u>Everbridge Emergency Mass Notification System</u> will allow Office of Emergency Management (OEM) to distribute emergency and non-emergency messages via email, text, cell, home, and office phones, and is similar to the "reverse 911" systems used by many local communities and school districts.

See also: What to do in an emergency

Wi-Fi

BNL offers apart from "Corus" also "<u>EduRoam</u>". With Corus you have to register your device and the network is not encrypted. EduRoam will not require registration and is available at many other Universities and airports.

LOCAL EMERGENCY PLAN – BUILDING # 510, Rev. 11.0

Zone and Complex:

GREEN ZONE, CENTRAL COMPLEX

Position	Name	Extension	Cell Phone
LEC	A. Franz	4750	631-816-0348
Alt. LEC	M. Lenz	5423	631-645-4769
Alt. LEC	R. Burns	3745	N/A
Facility Project Manager	T. Doyle	7556	516-779-3119
Facility Complex Manager	D. Forino	7672	631-461-2715
ES&H Coordinator	A. Franz	4750	631-816-0348
RSM	A. Franz	4750	631-816-0348

To Report a fire, spill, medical or other emergency, **DIAL EXT. 2222 or 911**

> If using a cell phone, DIAL 631-344-2222 If a telephone is not available, **USE A FIRE ALARM BOX**

For after-hours building issues, call the Site Supervisor: x4174

BUILDING INDOOR ASSEMBLY or SHELTER IN PLACE AREAS		
LOCATION:	Building 510 Auditorium (Large Seminar Room), Conference Room Building 510 3-209B	
BUILDING OUTDOOR ASSEMBLY AREA		
LOCATION:	Front Lawn, West of Building 510	
ALTERNATE BUILDING OUTDOOR ASSEMBLY AREA		
LOCATION:	Lawn West of 510, between Buildings 510 and 555,	
Closest AED's		
LOCATION:	Lobby at the main entrance of building 510	

one-page summary of the Local Emergency Plan

The full Local Emergency Plan is available on the Physics Department web pages.

510 is in the BNL - GREEN ZONE (Protective Action Zone).

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Environmental Management System

BNL is registered to the ISO 14001 Environmental Management System (EMS). Everyone should be aware of this and should understand what they can do to help the Department maintain its registration. For most of us it means reducing waste, disposing of waste properly, recycling, wise use of resources, and being aware of our impact on the environment. More detailed information is on the <u>Department's EMS web page</u>.

One waste disposal issue that impacts nearly everyone is the disposal of spent batteries. Alkaline and Carbon-Zinc batteries should be disposed of by placing them in the regular trash. Other batteries (Ni-Cd, Li-ion, Lead-Acid, NiMH, Silver-Oxide, etc.) with hazardous components are disposed of by taking them to the Universal Waste Area in the stockroom (510-1-147).

Waste batteries MUST be placed in a closed container that is labeled for the type of battery that you are disposing. If there is no container for your battery type, **bring it to the ESH Coordinator**. Do NOT leave the battery in the area; this is a violation of BNL policy and NYSDEC regulations and can result in a fine to the Department.

Chemicals

Even if you do not work in a laboratory, you may use chemicals that are tracked by the BNL Chemical Management System (CMS). A tracked chemical will have a CMS bar code attached to it. If the chemical is used up or otherwise disposed of, a CMS manager must be notified so that the chemical can be removed from the database. Contact the ESH Coordinator for assistance.

Security:

The Physics Building (building 510) is unlocked to allow for 24-7 access. Always close and lock your office door at the end of the day, or if you will be away from your office for a length of time. When you are attending a seminar you must lock your door. Your computer(s) must also be password locked when you leave your office. We encourage to label your personal equipment (laptops, disks, radios, ...) with your name, property verifications are done regularly.

Working in Laboratories and Shops

Any work in laboratories, shops or tech areas requires work planning. For simple tasks, worker planned work is sufficient, but most lab work is covered by an Experiment Safety Review (ESR) or a Work Permit. Before beginning work, you must read and sign the work document. If there is no document for the proposed work, contact the ESH Coordinator to get the appropriate ESR or Work Permit started. ESRs are maintained, and signed, electronically. There are standing Work Permits for electrical and electronic troubleshooting, crane operation, and use of the machine shop. Before you can perform any work covered by these permits, you must be on the authorized personnel list for the permit.

If your work involves hazards or equipment that is not already listed on the ESR or Work Permit, contact the ESH Coordinator before beginning work. The new hazard may require changes to the ESR or Work Permit, and additional controls to maintain a safe work environment.

Ergonomics:

Repetitive stress injuries are a concern for all workers in the Physics Department. There is a link on the Physics Home Page to ergonomic information and a computer workstation evaluation tool. You are encouraged to use this tool as a self-evaluation and to follow up by requesting a personal assessment by one of BNL's experts.

Moving furniture:

Desks and other heavy furniture cannot be moved by Physics personnel. Contact the stockroom manager for help moving furniture.

Injury Precursors

- Distraction/"Multi-tasking" (cell phone use)
- Time pressure (deadlines)
- Fatigue
- Working alone in the lab
- Lack of familiarity with laboratory equipment
- Incomplete understanding of procedures, Experimental Safety Review, or Work Permit
- Incomplete training
- > If in doubt, ask your supervisor



HAZARD INFORMATION PLACARD

Room: 1-142 Bldg: 0510.12 High Bay

Emergency Contact #:631-344-2222

Dept: PO Physics Department Print Date: 11/13/19 2:31 PM

NO FOOD OR DRINK ALLOWED NO OPEN FLAME NO SMOKING

PROTECTIVE EQUIPMENT REQUIRED FOR AREA

Area Designation: Multiple Purpose Laboratory







CHEMICAL HAZARDS OF THE AREA









FLAMMABLE WATER REACTIVE

CARCINOGEN RESPIRATORY **SENSITIZER REPRODUCTIVE** TOXICITY

DERMAL

SENSITIZER

CORROSIVE

GAS UNDER PRESSURE



STARTLE HAZARD

ADDITIONAL HAZARD INFORMATION

ESR / SWP / RWP / PI: PO-030-2016, PO-042-2015, PO-054-2015 PO-073-2018



Utility Isolation: Electric: Circuit breakers on all walls Steam: Shut offs above each Trane heater - 12' above floor

Master steam shutoff located inside Machine Shop (1-141) on South Wall, East end.

ADDITIONAL INFORMATION PLACARD

(Optional Placard provided for line organizations to add information applicable to their operations)

Primary Contact: Franz, Achim Work: 4750 Home/Cell: 631-816-0348 Work: 7556 Alternate Contact #1: Doyle, Thomas

authorized personnel for electrical work and crane operation is listed on the entrance door

Hazard Validation Tool

Minimum PPE required for entry into the area.

Hazard symbols for the chemicals in the area.

Additional information for entry and work.

Personal Protective Equipment (PPE)

- ALL staff members and students are required to wear posted PPE, such as safety glasses, lab coats, long pants, and enclosed shoes.
- Check HVT placards outside of your work area for Area-based PPE requirements.
- Follow the Experimental Safety Review(ESR)
 requirements for Task-Specific PPE.



PPE Demo Room

The room is located in **Building 30** (Brookhaven Center).

[Short video on the content of the room.]



Glasses

Open Wednesday ONLY

9 a.m.—12:30 p.m., 1:30 p.m.—4:30 p.m. CLOSED Monday, Tuesday, Thursday, Friday

Prescription safety glasses can be obtained by having your Department or Division Safety Coordinator complete BNL Form #2211B. The signed form must then be submitted to the Safety Glass Representative in Building 30.

A new eye prescription must be submitted every two years. A maximum of one pair of glasses will be issued per year. Contact Erica Lamar with an account number.





Shoes

Open Tuesday & Thursday ONLY

9 a.m.—12:30 p.m., 1:30 p.m.—4:30 p.m.

CLOSED Monday, Wednesday, Friday

Employees requiring safety shoes must have an approved E-Procurement safety shoe voucher to purchase shoes in the program at no cost. The safety shoe voucher must then be submitted to the Safety Shoe Representative in Building 30. Other shoes are available outside the standard program which may be purchased at the employee's expense.

A maximum of two pairs of shoes will be issued per year. Contact Achim Franz with an account number.

Barricades & Hazard Postings

- <u>Do not cross barricades</u> (tapes, chains, fencing, etc.).
- Observe hazard signs for high noise areas, radiation areas, and construction zones.
- Training is required for entry into certain areas.
- Avoid areas with "Wet Floor" placards; walk carefully when necessary.
- Stay out of construction areas.









Driving at Brookhaven

Brookhaven Lab observes

NYS traffic laws:

- Obey the speed limit: 30 MPH.
- Come to a full stop at stop signs.
- Slow down or for slow-moving vehicles
 (e.g., Kubotas, site maintenance vehicles).
- Yield to emergency vehicles.
- Stop for pedestrians in crosswalks.
- Use hands-free electronic devices.
- You could get a ticket for violations.





Pedestrian Safety

- Cross street at marked crosswalks and observe traffic-control signals.
- Before crossing in a crosswalk, make sure cars come to a complete stop.
- If you have to cross the street where there is no crosswalk, **yield** to oncoming traffic.
- Use the sidewalk when available.
- If no sidewalk is available, always walk or jog facing traffic.
- In darkness, at dawn or dusk, wear reflective gear or bright clothing.
- Don't text or email while you are walking.





Biking Safety

- Helmets are required while biking onsite.
 - Order a helmet through your department.
- Cyclists are required to obey the same rules as drivers:
 - Follow traffic.
 - Stop at stop signs.
 - Obey red lights.
 - Observe right-of-way rules.
 - No texting or talking on a cell phone while riding.
 - Don't wear headphones in both ears.
- **Use** a light, head lights, and tail lights (NY State Law) and reflective clothing when riding in dusk or darkness.
 - These items are also available through your Department or call <u>Safety and Health</u>
 <u>Services</u> at Ext. 4056.
- Give pedestrians the right of way in crosswalks.
- Don't ride on sidewalks.
- Be alert for road hazards such as potholes, drains, and construction sites.





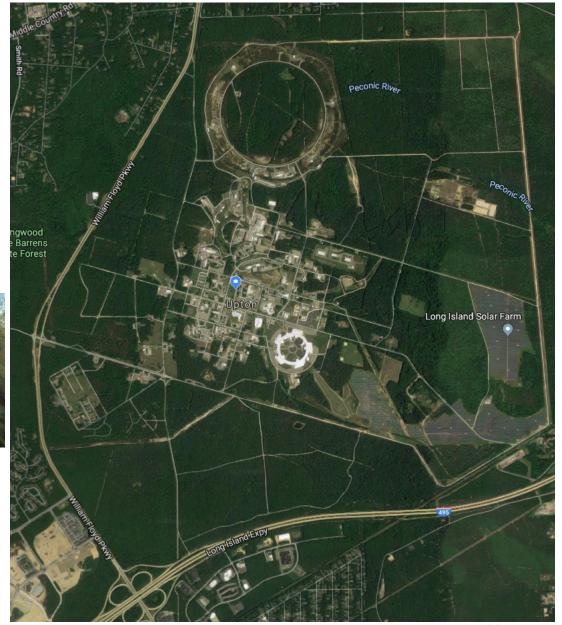


E. Lamar (x2585), A. Franz (x4750)

Recreational Activities

- Brookhaven has over 5 thousand acres of trails and woods...
- When running, walking, or biking in wooded areas, follow these precautions:
 - Stay on trails
 - Tell someone where you are going
 - Bring a cell phone with you
 - Study a site map
 - Go with a friend
 - Do not smoke/use open flame
- If injured, report to the Clinic (or to Fire/Rescue during afterwork hours).



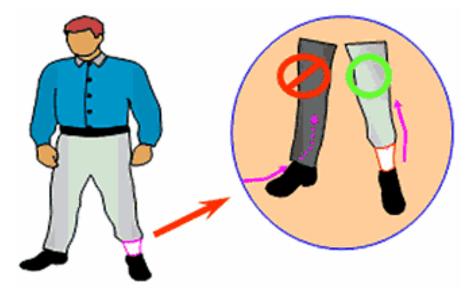


Natural Hazards

- To avoid ticks, avoid grassy or wooded areas and wear protective clothing (i.e., long pants).
 - If you have a tick or suspicious rash, go to the Medicine Clinic (Bldg. 490).
- Watch out for wildlife, especially deer, when walking, bicycling, and driving.

Lyme Disease & Tick-borne Disease Awareness TQ-LYME1









E. Lamar (x2585), A. Franz (x4750)

Questions?

Work, learn, be safe

