Buildings included in this plan: Alles, Beckman Behavioral Biology, BI (areas assigned to BBE), Braun, Broad, Church, and Kerckhoff

This plan is maintained by: Joan Sullivan, BBE Business Operations Manager

Last Revision: January 6, 2020
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## CAMPUS EMERGENCY NUMBERS

<table>
<thead>
<tr>
<th>Position</th>
<th>Name and Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security Emergency (Police, Fire, Medical Emergency, Hazardous Material Incident)</td>
<td>x5000 (Campus Phone) 626.395.3000 (Non-Campus or Cell Phone)</td>
</tr>
<tr>
<td>Security Non-Emergency</td>
<td>x4701</td>
</tr>
<tr>
<td>Physical Plant Service Center</td>
<td>x4717</td>
</tr>
<tr>
<td>Environment, Health, and Safety</td>
<td>x6727</td>
</tr>
<tr>
<td></td>
<td>x5000 after hours for 24/7 on-call EHS</td>
</tr>
<tr>
<td>Staff Emergency Information Hotline (Recorded emergency bulletins/Status updates)</td>
<td>(888) 427-7465</td>
</tr>
<tr>
<td>Parent Emergency Information Hotline (Recorded emergency bulletins/status updates on students)</td>
<td>(888) 427-7512</td>
</tr>
</tbody>
</table>

## BBE EMERGENCY NUMBERS

<table>
<thead>
<tr>
<th>Position</th>
<th>Name and Extension</th>
</tr>
</thead>
<tbody>
<tr>
<td>Division Chair</td>
<td>Steve Mayo x6408</td>
</tr>
<tr>
<td>Division Administrator</td>
<td>Mike Miranda x4954</td>
</tr>
<tr>
<td>Business Operations Manager</td>
<td>Joan Sullivan x6444</td>
</tr>
<tr>
<td>Facilities Manager</td>
<td>Jesse Flores x3641</td>
</tr>
<tr>
<td>Executive Officer for Computation and Neural Systems</td>
<td>Thanos Siapas x8809</td>
</tr>
<tr>
<td>Executive Officer for Neuroscience</td>
<td>Markus Meister x1782</td>
</tr>
<tr>
<td>Executive Officer for Molecular Biology</td>
<td>Dianne Newman x3543</td>
</tr>
<tr>
<td>Executive Officer for Biological Engineering</td>
<td>Michael Elowitz x8871</td>
</tr>
</tbody>
</table>

## BBE CONTROL CENTER LOCATION: KERCKHOFF 114 or 103
If Kerckhoff is not accessible, the immediate Division Control Center location will be the lawn just west of Kerckhoff until another office location is made available.

OLAR control center location: Kerckhoff B111
INTRODUCTION

The complexity of a campus like Caltech requires the full support of its Departments/Divisions and staff to successfully implement an Emergency Preparedness Program. Division Emergency Action Plans (EAP) are an integral part of the overall program.

Divisions are expected to develop their own EAP and Continuity Plan for practical reasons. They best understand the nature of their work, potential workplace hazards, the layout of their facility, and special needs specific to their divisions (i.e. people with disabilities, research, animals, etc.).

The EAP is a way for your department/division to plan for potential emergencies; small accidents, citywide disasters, power outages, hazardous material spills, fires, bomb threats, a civil disturbance, or an earthquake. Advanced planning and a department EAP will help to reduce the risk and loss of life. It is important that everyone working in the area is familiar with the EAP.

The Campus Emergency Management Plan can be accessed at: http://www.emergencypreparedness.caltech.edu/CEMP

EMERGENCY PLANNING IMPLEMENTATION CHECKLIST

- Appoint a Building Coordinator and alternates for each building occupied by the department/division
- Appoint Safety Officers for each group within the Division
- Designate Evacuation Assembly Areas for each building
- Encourage individuals with permanent or temporary disabilities that might require special assistance during an evacuation to identify a “buddy” to assist them in an emergency.
- Monitor and report any non-structural earthquake and safety hazards to EH&S (x6727 or safety@caltech.edu)
- Procure and maintain adequate emergency supplies for work area employees
- Post the Caltech Emergency Response Guide in work areas
- Develop emergency notification, reporting, and call-back procedures for personnel
- Annually review and update the Emergency Action Plan
- Familiarize all Division/Department personnel with EAP content
- Develop Division/Department Continuity Plans
- Review the Campus Emergency Management Plan
  http://www.emergencypreparedness.caltech.edu/CEMP
DEFINITIONS

Building Assessment Team (BAT): Each Division/Department is encouraged to enlist volunteers interested in conducting initial visual exterior assessments of buildings within their Division. These individuals are often grad students but staff and faculty are also great additions. Ideally BAT members live within walking distance to campus with the intention that they can come to campus after hours to perform preliminary assessments.

Building Coordinator: designated by the department/division as the primary emergency contact for the building; responsible for implementation of the emergency action plan; assists with the safe evacuation of the work area (with assistance of Safety Officers); assesses injuries and damage to the work area personnel/property and reports status to the Emergency Operations Center (EOC).

Caltech Ready: Caltech Ready is a web based continuity planning tool that contains the continuity plans for numerous academic groups and support units across the Institute.

Campus Emergency Management Plan (CEMP): The Caltech Campus Emergency Management Plan is an operational guide for members of the Emergency Operations Center (EOC) and other responders in the event of an emergency or other event that threatens the health and safety of the campus community or disrupts normal operations or research.

Division/Department Control Center (DCC): The DCC is a pre-designated location where key Division/Department personnel convene to coordinate Division/Department response and recovery efforts.

Emergency Action Plan (EAP): prepared by each campus department/division, the EAP is specific to each work area and outlines various emergency responsibilities of staff, evacuation routes and evacuation assembly areas, emergency supplies, and emergency notification plans.

Emergency Hotline: an emergency information hotline for the campus community. Following a major emergency situation, updates on the status of the campus and instructions will be recorded on the hotline.

Staff Information: (888) 427-7465
Student Information: (888) 427-7512

Emergency Operations Center (EOC): the EOC is where crisis management committee members gather to coordinate the response to an emergency impacting the campus community, deploy emergency response teams, and communicate with outside support services. The primary EOC location is in the Physical Plant Conference Room.

Evacuation Assembly Areas (EAA): areas designated by each department where occupants of evacuated buildings assemble to await further instruction and “all clear” notifications.

Safety Officers: designated employees that assist the building coordinator in building evacuations. Safety Officers direct other employees out of the work area, make observations of injuries/damage and assist individuals with special needs. Safety Officers are equipped with an orange vest.

Information and Assistance Hub (HUB): The Information and Assistance Hub, referred to as the “HUB” is an indoor or outdoor location that provides basic information pertaining to the emergency and resources available to members of the Caltech community. Resources provided will reflect the unique nature of the situation but might include: information on available counseling services, location of medical assistance, status of assessed buildings, ride share boards, as well as international student and scholar assistance. The location and activation of the HUB is done at the discretion of the Emergency Operations Center.
EMERGENCY PROCEDURES

FIRE

Small Fire

In the case of a small fire trained personnel may use a fire extinguisher to extinguish the fire. Evacuation routes should be maintained to allow for immediate exit of all building occupants. Once in a safe location, Security should be notified, call x5000. Following evacuation, occupants are not to re-enter the building until instructed to do so by emergency response personnel.

Major Fire

R e main C alm
A lert people in the area and activate the nearest alarm pull box
C lose doors to confine the fire
E vacuate to a safe area; use stairs, do not use elevators

Fire Extinguisher Use

P ull the pin
A im the nozzle at the base of the fire
S queeze the handle to release the extinguishing media
Sweep extinguisher from side to side to smother the fire

Evacuation

• Know the two nearest exits from your work area
• Evacuate the building when:
  o The alarms are sounding
  o Instructed to do so by emergency response personnel
  o There is imminent danger to life
• Close all doors behind you to stop the spread of the fire
• Leave quickly by the nearest safe exit, walk don’t run

Outside the Building

• Proceed to the Evacuation Assembly Point
• Provide pertinent information to Safety Officers and/or the Building Coordinator
• Building Coordinators should inform emergency personnel, e.g. Pasadena Fire Department, of pertinent information
• Remain with the evacuation group. Do not re-enter the building until instructed to do so by emergency response personnel.
EARTHQUAKE

Preparation
- Avoid storing heavy objects on high shelves
- Secure bookcases, cabinets, and equipment to the floor or wall
- Anchor desk-top equipment, including computers, with nylon straps or Velcro
- Install restraints on laboratory chemical shelves
- Store gas cylinders in properly designed racks

During an Earthquake

If you're inside
- Drop, cover, and hold; take cover under a table or desk and hold on
- If there is no furniture to take cover under, drop to the floor and lean into an interior wall, covering your head with your arms
- Stay away from windows, overhead fixtures, tall objects and electrical equipment
- In a classroom or auditorium, stay where you are and protect yourself by getting under cover or covering your head with your arms
- In a chemical laboratory, be prepared for falling chemical containers. You may need to move from the laboratory into the hallway

If you're outside
- Move to an open area away from buildings, trees, utility wires, and overhead structures
- If driving, pull over to the nearest open area and stop. Stay inside the vehicle until shaking stops

After an earthquake
- After the shaking stops, follow evacuation procedures.
  - Be prepared for aftershocks. Move cautiously. Avoid injury from broken glass and debris. Do not use elevators
  - Check for injured people. Administer first aid if necessary. Do not move seriously injured individuals unless absolutely necessary (fire, imminent building collapse)
    - Report all injuries to emergency response personnel

In situations where leaving campus is difficult or impossible, communication will come from the DCC, Building Coordinators and can be found at the HUB and by calling the Staff Emergency Information Hotline.
SHELTER IN PLACE

The Shelter in Place procedure is used during an emergency when it’s safer for individuals to remain indoors than exit into a potentially harmful environment. A hazardous chemical release or an act of violence are two examples of emergency situations that may necessitate a Shelter in Place alert.

To help you remember what to do, the 4 S Procedure has been developed.

SEEK shelter, SECURE your environment, SILENCE any sounds that may make your location known to an intruder, STAY where you are until you have been advised it’s safe to leave.

Seek & Share
- Assess your environment:
  - Certain situations may require immediate shelter but where possible: seek rooms that can be locked from the inside. Avoid large open areas, windows or areas that can’t be secured
  - If you are outside and alerted to seek shelter indoors, enter the closest possible building
  - Consider sheltering with others but avoid sheltering in large groups

Secure
- Lock the building's exterior doors (manually or via card access)
- Secure your space. If there are no locks, consider barricading the door.
- Close and lock any windows. Pull blinds closed.
- In some cases the ventilation system may be shut off.

Silence
- Minimize noise
- Keep cell phones turned on but silence them
- Turn down ringers on desk phones
- Be aware of your surroundings and use your senses; listening for unusual sounds, look for hazards or smells
- Reduce or turn off lights to make yourself less visible in the building.

Stay
- Remain in a secure location and wait for instructions from emergency personnel or an official source such as the Caltech Emergency Notification system before exiting the building. It is important to note that clearing campus and buildings for exit may take law enforcement hours, so it is important to have emergency food and water available in your immediate area.

Communications during a Shelter in Place Event
- Notification to shelter in place can come from various sources; however, Caltech Alerts will be used as a primary communication tool.
- Always alert or share necessary safety information with other people in your building or location
- If you have pertinent information about the emergency or need assistance call x5000 or send an email to 5000@caltech.edu. Please consider that by making a phone call you may be audible to a perpetrator.
POWER OUTAGE

A power outage on campus has the potential to cause a significant disruption. Although all buildings on campus have emergency lighting to allow for safe egress, not all campus buildings have generators to provide extended power to equipment and systems.

Telephones are expected to remain operational as long as the telephone switch remains powered by the emergency generator at Dabney.

Building access will automatically lock, meaning that doors controlled by card access will not open and physical keys will need to be used.

Immediate needs:

- Close all fume hood sashes
- Ensure critical equipment has been shut down and protected from a sudden power surge when power is restored
- Keep all fridges and freezers closed to conserve cold air mass
- Confirm that freezer backup systems such as LN2 and CO2 are functioning
- Identify critical functions and determine what can be performed without power
- Identify which staff must remain on campus and which staff can be sent home or can work from home
- Advise the Building Coordinator and DCC of the status and needs in your area

Mid- to long-term needs:

All buildings have back-up power to provide emergency lighting for safe egress. Further, all BBE buildings are equipped with some emergency generator-provided back-up power and the generators will automatically come on in the first several minutes after a power failure. For all BBE buildings (except Church), emergency power can be used for critical equipment and systems. It is important that critical equipment be pre-identified and prioritized. There will not be enough emergency power to sustain ongoing experiments or maintain all refrigerators and freezers. There is limited fuel on campus and the Institute’s ability to procure additional fuel may be restricted during a regional emergency event.

See Building Specific Guidelines for Back-up Power (Appendix 1).

See Prolonged Power Outage Plan section of the Caltech Campus Emergency Management Plan (Appendix 2).
The following are evacuation assembly area (EAA) locations:

<table>
<thead>
<tr>
<th>Building</th>
<th>Evacuation Assembly Area</th>
<th>Alternative Assembly Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kerckhoff (27)</td>
<td>West of Kerckhoff; grass area near Wilson</td>
<td>Patio area between Braun/Church/Noyes</td>
</tr>
<tr>
<td>Church (29)</td>
<td>West of Church; grass area near Wilson</td>
<td>Patio area between Braun/Church/Noyes</td>
</tr>
<tr>
<td>Alles (28)</td>
<td>West of Alles; grass area near Wilson</td>
<td>Patio area between Braun/Church/Noyes</td>
</tr>
<tr>
<td>Braun (75)</td>
<td>West of Braun; grass area near Wilson</td>
<td>Patio area between Braun/Church/Noyes</td>
</tr>
<tr>
<td>BBB (76)</td>
<td>Court of Man Lawn; between BBB and Baxter (Commencement location)</td>
<td>Patio area between Braun/Church/Noyes</td>
</tr>
<tr>
<td>BI (74)</td>
<td>BI Lawn; west of BI near Wilson</td>
<td>Patio area between Braun/Church/Noyes</td>
</tr>
<tr>
<td>Broad (96)</td>
<td>BI Lawn</td>
<td>Patio area between Braun/Church/Noyes</td>
</tr>
</tbody>
</table>

The location of the campus evacuation point for large-scale campus emergency evacuations: **Braun Athletic Center – Baseball Field**

The Information and Assistance Hub, referred to as the “HUB” is an indoor or outdoor location that provides basic information pertaining to the emergency and resources available to members of the Caltech community. Resources provided will reflect the unique nature of the situation but might include: information on available counselling services, location of medical assistance, status of assessed buildings, ride share boards, as well as international student and scholar assistance. The location and activation of the HUB is done at the discretion of the Emergency Operations Center and will likely be located in one of the larger gathering areas on campus or near residences or the cafeteria.
CHAIN OF COMMAND AND AUTHORITY

During and immediately following a disaster, the Emergency Plan should identify key staff, including a line of succession, who will have decision-making authorization for BBE. BBE has two intertwined Chains of Command and Authority: staff and faculty. In all scenarios, staff will work hand-in-hand with the Chair and other faculty, however, the staff are empowered to act on behalf of BBE in absence of faculty input.

<table>
<thead>
<tr>
<th>Staff</th>
<th>Faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
<td><strong>Name</strong></td>
</tr>
<tr>
<td>1 Mike Miranda*</td>
<td>1 Steve Mayo*</td>
</tr>
<tr>
<td>2 Joan Sullivan*</td>
<td>2 Markus Meister</td>
</tr>
<tr>
<td>3 Jesse Flores*</td>
<td>3 Elliot Meyerowitz</td>
</tr>
<tr>
<td>3 Jesse Flores*</td>
<td>5 Dianne Newman*</td>
</tr>
<tr>
<td></td>
<td>6 Thanos Siapas*</td>
</tr>
</tbody>
</table>

*radio holder

DIVISION CONTROL CENTER PERSONNEL

The following individuals are expected to report to the Division Control Center to manage BBE’s Response and Recovery during an emergency.

<table>
<thead>
<tr>
<th>Name</th>
<th>Extension</th>
<th>Office location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Steve Mayo</td>
<td>x4951</td>
<td>112 Kerckhoff</td>
</tr>
<tr>
<td>2 Mike Miranda</td>
<td>x4954</td>
<td>103 Kerckhoff</td>
</tr>
<tr>
<td>3 Joan Sullivan</td>
<td>x6444</td>
<td>105A Kerckhoff</td>
</tr>
<tr>
<td>4 Jesse Flores</td>
<td>x3641</td>
<td>355 Church</td>
</tr>
<tr>
<td>5 Executive Officers as needed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# BUILDING COORDINATORS AND SAFETY OFFICERS

## KERCKHOFF - Building Coordinators/Runners

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sue Zindle (BC)</td>
<td>x4943</td>
<td><a href="mailto:szindle@caltech.edu">szindle@caltech.edu</a></td>
</tr>
<tr>
<td>Kenya Zeigler</td>
<td>x4389</td>
<td><a href="mailto:kzeigler@caltech.edu">kzeigler@caltech.edu</a></td>
</tr>
</tbody>
</table>

## KERCKHOFF - Safety Officers

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Igor Antoshechkin</td>
<td>x5913</td>
<td><a href="mailto:igor.antoshechkin@caltech.edu">igor.antoshechkin@caltech.edu</a></td>
</tr>
<tr>
<td>Brian Williams</td>
<td>x4923</td>
<td><a href="mailto:bawilli@caltech.edu">bawilli@caltech.edu</a></td>
</tr>
<tr>
<td>Shelley Diamond</td>
<td>x4947</td>
<td><a href="mailto:diamond@its.caltech.edu">diamond@its.caltech.edu</a></td>
</tr>
<tr>
<td>Barbara Perry</td>
<td>x8484</td>
<td><a href="mailto:beegie@its.caltech.edu">beegie@its.caltech.edu</a></td>
</tr>
<tr>
<td>Vickie Trinh</td>
<td>x8723</td>
<td><a href="mailto:vtrinh@caltech.edu">vtrinh@caltech.edu</a></td>
</tr>
<tr>
<td>Bruce Hay</td>
<td>x3399</td>
<td><a href="mailto:haybruce@caltech.edu">haybruce@caltech.edu</a></td>
</tr>
<tr>
<td>Purnima Deshpande</td>
<td>x4932</td>
<td><a href="mailto:purnimad@caltech.edu">purnimad@caltech.edu</a></td>
</tr>
<tr>
<td>Jace Gehring</td>
<td>x8085</td>
<td><a href="mailto:jgehring@caltech.edu">jgehring@caltech.edu</a></td>
</tr>
<tr>
<td>Karen Lencioni (OLAR/GEMS)</td>
<td>x8864</td>
<td><a href="mailto:kchase@caltech.edu">kchase@caltech.edu</a></td>
</tr>
</tbody>
</table>

## ALLES - Building Coordinators/Runners

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katie Fisher</td>
<td>x4953</td>
<td><a href="mailto:katiel@caltech.edu">katiel@caltech.edu</a></td>
</tr>
<tr>
<td>Lauren Breeyear</td>
<td>x4952</td>
<td><a href="mailto:lbreey10@caltech.edu">lbreey10@caltech.edu</a></td>
</tr>
</tbody>
</table>

## ALLES - Safety Officers

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denise Rodriguez</td>
<td>x2747</td>
<td><a href="mailto:cora_carriedo@vwr.com">cora_carriedo@vwr.com</a></td>
</tr>
<tr>
<td>Katie Clark</td>
<td>x3446</td>
<td><a href="mailto:ktclark@caltech.edu">ktclark@caltech.edu</a></td>
</tr>
<tr>
<td>Elisha Mackey</td>
<td>x6862</td>
<td><a href="mailto:elisham@caltech.edu">elisham@caltech.edu</a></td>
</tr>
<tr>
<td>Celine Chiu</td>
<td>x6845</td>
<td><a href="mailto:cchiu@caltech.edu">cchiu@caltech.edu</a></td>
</tr>
<tr>
<td>Ping Dong</td>
<td>x8575</td>
<td><a href="mailto:pingdong@caltech.edu">pingdong@caltech.edu</a></td>
</tr>
</tbody>
</table>

## CHURCH - Building Coordinators/Runners

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manny De La Torre</td>
<td>x4922</td>
<td><a href="mailto:manueld@caltech.edu">manueld@caltech.edu</a></td>
</tr>
<tr>
<td>Lauren Breeyear</td>
<td>x4952</td>
<td><a href="mailto:lbreey10@caltech.edu">lbreey10@caltech.edu</a></td>
</tr>
</tbody>
</table>
### CHURCH - Safety Officers

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yvette Garcia-Flores</td>
<td>x8978</td>
<td><a href="mailto:yvette@caltech.edu">yvette@caltech.edu</a></td>
</tr>
<tr>
<td>Arnavaz Garda</td>
<td>x8438</td>
<td><a href="mailto:agarda@caltech.edu">agarda@caltech.edu</a></td>
</tr>
<tr>
<td>Tasha Cammidge</td>
<td>x8123</td>
<td><a href="mailto:tscammid@caltech.edu">tscammid@caltech.edu</a></td>
</tr>
<tr>
<td>Hannah Hurley</td>
<td>x8123</td>
<td><a href="mailto:hhurley@caltech.edu">hhurley@caltech.edu</a></td>
</tr>
<tr>
<td>Grigoris Oikonomou</td>
<td>x3797</td>
<td><a href="mailto:grigoris@caltech.edu">grigoris@caltech.edu</a></td>
</tr>
<tr>
<td>Michael Muller</td>
<td>x8615</td>
<td><a href="mailto:mueller@caltech.edu">mueller@caltech.edu</a></td>
</tr>
</tbody>
</table>

### BRAUN - Building Coordinators/ Runners

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sowmya Chandrasekar</td>
<td>x8712</td>
<td><a href="mailto:ouyangy@caltech.edu">ouyangy@caltech.edu</a></td>
</tr>
<tr>
<td>Park, S. (Shannon)</td>
<td>x4856</td>
<td><a href="mailto:spark80@caltech.edu">spark80@caltech.edu</a></td>
</tr>
</tbody>
</table>

### BRAUN - Safety Officers

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Udartseva, Elena</td>
<td>x1726</td>
<td><a href="mailto:ludart@caltech.edu">ludart@caltech.edu</a></td>
</tr>
<tr>
<td>Campbell, Judith</td>
<td>x6053</td>
<td><a href="mailto:jcampbel@caltech.edu">jcampbel@caltech.edu</a></td>
</tr>
<tr>
<td>Shannon Park</td>
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</tr>
<tr>
<td>Kanomi Sasaki-Capela</td>
<td></td>
<td><a href="mailto:kscapela@caltech.edu">kscapela@caltech.edu</a></td>
</tr>
<tr>
<td>Ju Yeon Hyun</td>
<td>x</td>
<td><a href="mailto:juyeonhn@caltech.edu">juyeonhn@caltech.edu</a></td>
</tr>
<tr>
<td>David Mathog</td>
<td>x8453</td>
<td><a href="mailto:mathog@caltech.edu">mathog@caltech.edu</a></td>
</tr>
</tbody>
</table>

### BBB - Building Coordinators/ Runners

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jessica Silva</td>
<td>x4998</td>
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<tr>
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</tr>
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### BBB - Safety Officers

<table>
<thead>
<tr>
<th>Name</th>
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<th>Email</th>
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<tbody>
<tr>
<td>Robert Vega</td>
<td>x3190</td>
<td><a href="mailto:rvega@caltech.edu">rvega@caltech.edu</a></td>
</tr>
<tr>
<td>Sarah Fitzgerald</td>
<td>x3190</td>
<td><a href="mailto:sfitz@caltech.edu">sfitz@caltech.edu</a></td>
</tr>
<tr>
<td>Kristina Dylla</td>
<td>x1304</td>
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<tr>
<td>Brittany Ho</td>
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<tr>
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<td>x1702</td>
<td><a href="mailto:fluongo@caltech.edu">fluongo@caltech.edu</a></td>
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</table>
### BBB - Safety Officers, cont’d

<table>
<thead>
<tr>
<th>Name</th>
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<th>Email</th>
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<tbody>
<tr>
<td>Susan Ou</td>
<td>x3724</td>
<td><a href="mailto:mono@caltech.edu">mono@caltech.edu</a></td>
</tr>
<tr>
<td>Kelsie Pejsa</td>
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<tr>
<td>Anjalika Chongtham</td>
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<tr>
<td>Ali Khoshnan</td>
<td>x1705</td>
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</tr>
</tbody>
</table>

### BROAD - Building Coordinators/ Runners

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
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<tbody>
<tr>
<td>Janie Malone</td>
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<tr>
<td>Andreas Feuerabendt</td>
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### BROAD - Safety Officers

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<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
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<tbody>
<tr>
<td>James Linton</td>
<td>x5969</td>
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<tr>
<td>Christopher Frick</td>
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<tr>
<td>Mary Martin</td>
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<tr>
<td>Ralph Lee</td>
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<tr>
<td>Robert Oania</td>
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<tr>
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<tr>
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<td>x3292</td>
<td><a href="mailto:daw-an@caltech.edu">daw-an@caltech.edu</a></td>
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</table>
**Beckman Institute – BBE Coordinators/ Runners**

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
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<tbody>
<tr>
<td>Albert Gomez</td>
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**Beckman Institute - Safety Officers**

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<thead>
<tr>
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<th>Telephone</th>
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<tbody>
<tr>
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<tr>
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**BUILDING ASSESSMENT TEAM (BAT) MEMBERS**

<table>
<thead>
<tr>
<th>Name</th>
<th>BAT for:</th>
<th>Telephone</th>
<th>Email</th>
</tr>
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<tbody>
<tr>
<td>Kelsie Pejsa</td>
<td>BBB</td>
<td>x2967</td>
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</tr>
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</table>

**MEDICAL RESPONDERS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenya Zeigler</td>
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<tr>
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<tr>
<td>Lauren Breeyear</td>
<td>x4952</td>
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</tr>
<tr>
<td>Sue Zindle</td>
<td>x4943</td>
<td><a href="mailto:szindle@caltech.edu">szindle@caltech.edu</a></td>
</tr>
</tbody>
</table>

**RUNNERS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone</th>
<th>Email</th>
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<tbody>
<tr>
<td>BC backups are runners</td>
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Volunteers: please contact Joan Sullivan at sully@caltech.edu for more information.
DIVISION/DEPARTMENT EMERGENCY NOTIFICATION AND COMMUNICATION PLAN

In conjunction with Caltech Emergency Operations, BBE is developing a series of phone trees and text lists for information distribution. These lists will include faculty and occupants of specific buildings/areas. Personal contact information already provided via access.caltech.edu will be used to populate these lists.

During an emergency, Building Coordinators will obtain information from the DCC and distribute to building occupants and others in their areas.

Include a plan to communicate emergency notifications and instructions to your staff during regular and non-working hours. Suggestions:

The Campus hotline (888) 427-7465, is also source of information updates.

EMERGENCY SUPPLIES AND EQUIPMENT

Building Coordinators are equipped with first aid supplies and radios.

First Aid Kits are located in most labs, offices and with the Building Coordinators. In the event that the Building Coordinator is not available, their kits can be found in their office locations (see locations above).

Orange Trauma bags and Handheld Radios are located with the Building Coordinators. In the event that the Building Coordinator is not available, their kits can be found in their office locations (see “locations” above).

Individual personnel are encouraged to keep their own first aid supplies, water and non-perishable food accessible in their work areas. These can be very important during an emergency, especially during prolonged Shelter in Place situations.

BBE SPECIFIC INSTRUCTIONS and ESSENTIAL FUNCTIONS:

In addition to individual lab needs (as outlined in Appendix 2), BBE has some areas with specific instructions:

❖ OLAR will be responsible for emergency procedures related to the animal facilities. OLAR has its own Emergency Action Plan.

❖ Critical equipment in the Caltech Brain Imaging Center (CBIC) located in the Broad basement. CBIC has its own Emergency Action Plan (attached here at Appendix

❖ Critical equipment in 00 Kerckhoff:
  o J.L. Shepherd Mark I Cesium – 137 Gamma Irradiator
  o Astrophysics Research Torrex 150 Cabinet X-Ray Unit
  o Pantak HF160 Shielded Room X-Ray Unit

In the event of an emergency, there will not be any radiation hazard from any equipment in Rm. 00 Kerckhoff due to the design of the equipment and facility. All personnel should exit the room immediately and not attempt to save any experiments. No one outside the room should attempt to enter until key staff have
evaluated the situation. Flooding is of special concern due to a potential electrical hazard.

The preferred notification sequence for any emergency in this room should be as follows:

• Security at x5000 will be notified
• Security will contact the Radiation Safety Officer (RSO) or Alternate RSO and the Division Administrator as well as local emergency responders as deemed necessary
• The Radiation Safety Officer will evaluate the situation and inform the Division Administrator of the steps necessary to mitigate the hazard(s)
• The Division Administrator will contact Facilities Management for corrective measures
• The Division Administrator will coordinate the contact of vendors or manufacturers for necessary repairs
• The RSO will then authorize the facility for use

Key Staff:

Haick Issaian, Radiation Safety Officer (RSO) ….. 626-786-6117
Casimir Scislowicz, Alternate RSO ……………….. 626-786-5460
Mike Miranda, Division Administrator……………… 909-865-6780

❖ Critical equipment in 74 Beckman Institute:
  o 1T Magnet
  o 11.7T Magnet

The small 1T magnet is self-contained with no cryogenic gases and no more hazardous than typical electronics.

The 11.7T magnet does not have passive quench systems, so that if the magnetic field collapses suddenly and the liquid helium boils off rapidly, the majority of the gas will escape into the space above the scanner, but there is a possibility that the room will also be hazardous until all the helium gas dissipates. If we have a power failure or water failure, the magnet will not be affected.

The most dangerous scenario (in human terms, not the equipment) would be an earthquake. The magnet weighs about 1 ton and could theoretically roll around in the rooms in a big quake. It has earthquake clamps and braces to reduce the chances of a breakaway magnet, but might still quench if a big quake hit. Then helium gas could build up quickly in the rooms, requiring an immediate evacuation of the room.

Emergency personnel should assume that the magnet is energized and at full strength when they enter the center. *Fire crews and police carry a lot of steel hardware and would be in great danger if they entered the magnet rooms with, e.g., air tanks or firearms.*
APPENDIX 1 – Building Specific Guidelines for Back-up Power

Kerckhoff and Alles Guidelines:
All outlets in Kerckhoff and Alles are connected to emergency power.

During a power-outage expected to extend beyond a few hours, all non-critical equipment should be unplugged to reserve generator fuel. Items to unplug include non-essential lab equipment as well as small office equipment (i.e. computers, coffee makers, lamps, etc.).

Church Guidelines:
Emergency power in Church is limited to Vivaria needs.

During a power-outage expected to extend beyond a few hours, any absolutely essential equipment should be inventoried and reported to the Building Coordinator who will coordinate with the DCC to relocate the equipment to a backed-up building or area if possible.

Braun Guidelines:
Braun is equipped with emergency power. Outlets providing emergency power can be identified by red markings. See images below for examples of emergency power outlets.

During a power-outage expected to extend beyond a few hours, any absolutely essential equipment not already connected to an emergency power outlet should be relocated to an outlet with emergency power with the oversight of the Building Coordinator or DCC representative.
**Broad Guidelines:**

Broad is equipped with emergency power. Outlets connected to emergency power are identified by red markings. See images below for examples of emergency power outlets in Broad.

![Example images of emergency power outlets in Broad.](Broad 120.jpg, Broad 208.jpg, Broad 200a.jpg)

During a power-outage expected to extend beyond a few hours, any absolutely essential equipment not already on an outlet with emergency power should be relocated to an outlet with emergency power with the oversight of the Building Coordinator or DCC representative.

**BBB Guidelines:**

BBB is equipped with emergency power. Outlets connected to emergency power are identified in the images below.

![Example images of emergency power outlets in BBB.](BBB 120.jpg, BBB 208a.jpg, BBB 200a.jpg, BBB 200b.jpg)

During a power-outage expected to extend beyond a few hours, any absolutely essential equipment not already on an outlet connected to emergency power should be relocated to an outlet connected to emergency power with the oversight of the Building Coordinator or DCC representative.
BI Guidelines:
BI is equipped with emergency power. Outlets connected to emergency power can be identified by a label marked “EP” for Emergency Power; a few are shown in the images below.

During a power-outage expected to extend beyond a few hours, any absolutely essential equipment not already connected to an outlet on emergency power should be relocated to an outlet connected to emergency power with the oversight of the Building Coordinator or DCC representative.
1. OVERVIEW
A power outage on campus has the potential to cause a significant disruption. Although all buildings on campus have emergency lighting to allow for safe egress, not all campus buildings have generators to provide extended power to equipment and systems.

Telephones are expected to remain operational as long as the telephone switch remains powered by the emergency generator at Dabney.

Building access will lock down, meaning that doors controlled by card access will not open and physical keys will need to be used.

For the purposes of this plan, a prolonged power outage is defined as exceeding 72 hours and may impact all or a portion of campus. This plan should be activated as soon as it is determined that the power outage may exceed 72 hours.

2. INITIAL ACTIONS FOR THE EOC
- Determine the expected duration of the outage
- Activate the Power Plan
- Confirm critical generators are operational (see Power Plan for a list of critical generators)

3. ROLES AND RESPONSIBILITIES

a) Impacted Divisions / Departments
- Activate Division/Department Continuity Plan
- Close all fume hood sashes if applicable
- Ensure critical equipment has been shut down and protected from a sudden power surge when power is restored
- Keep all fridges and freezers closed to conserve cold air mass
- Confirm that freezer backup systems such as LN$_2$ and CO$_2$ are functioning
- Identify critical functions and determine what can be performed without power
- Identify which staff must remain on campus and which staff can be sent home or can work from home
- Advise the EOC of Division/Department status

b) Campus Security
- Identify and prioritize any elevator entrapments
- Escort individuals from areas where egress lighting may have failed, if needed
- Assist with building access; card access / proxy cards will not work and doors will be locked
- Arrange for evacuation of persons needing assistance

c) Emergency Operations Center

Incident Commander
- Determine severity and duration of power outage
- Based on severity, the Incident Commander in conjunction with the Executive Policy Group should determine if adjustment to the academic schedule is needed and how undergraduate students in residence can be accommodated

Public Information Officer
- Communicate to the campus about the expected duration of the outage and any actions individuals should take or avoid
Operations
- Determine severity and duration of power outage and consider weather impacts
- Support Campus Security
- Activate the Power Plan
- Identify generators that could be powered off as part of the fuel conservation plan
- Consider having the Electric Shop open the switches in the substations so that power can be brought back to campus in a controlled manner
- Identify buildings with sump pumps and utility vaults without generators
- Once power has resumed, run ventilation in the Chemistry buildings (without generators) at 100% for 1 hour to purge any odors that might have accumulated

Planning
- Establish contact with Divisions and Departments and obtain status reports
- Activate resource tracking process for fuel
- Develop a fuel plan for approval by the Incident Commander
- If relocating students off campus develop a relocation plan for approval by the Incident Commander

Logistics & Finance
- Procure additional diesel fuel for emergency generators at the request of Planning
- Provide guidance to supervisors on topics such as working from home procedures and compensation for those told to not come to work

d) Executive Policy Group
- During a disruption to normal power supply, the Executive Policy Group should consider a number of policy issues, in particular, determine if:
  - Classes should be cancelled or other changes to the academic or operational schedule of the Institute are required
  - Essential non-reporting personnel released or advised to remain at home
  - Undergraduate students in residence and graduate students can remain in Institute housing
  - JPL has been impacted
APPENDIX 3- CHECKLISTS AND FORMS

DCC CHECKLIST:

The DCC is a location where key Division/Department personnel convene to coordinate Division/Department response and recovery efforts.

☐ Activate a DCC; DCC personnel report to Kerckhoff immediately
  o Communicate with Staff and Faculty
  o Advise the Emergency Operations Center of the DCC’s activation, location and any critical information. This might include:
    ▪ Life safety concerns or hazardous conditions
    ▪ Building or infrastructure damage
    ▪ Status of critical research, if known

*An example status report form is available in the Form Section of this EAP.*

☐ Determine research and academic priorities within the Division/Department
☐ Allocate space and resources as required and available
☐ Continue to communicate with the Emergency Operations Center
BUILDING COORDINATOR CHECKLIST:

Building Coordinators are assigned to every building and act as a liaison between the building occupants and emergency first responders such as Campus Security or the Pasadena Fire Department. During evacuations and emergency situations, Building Coordinators collect pertinent information from Safety Officers about injured individuals, trapped or missing persons, fire, hazardous material spills or other hazards remaining inside the building or about hazardous conditions. The Building Coordinator directs individuals to the assembly area and discourages individuals from re-entering the building until it has been given the “all clear” by Campus Security or the Pasadena Fire Department.

Building Coordinators are identifiable by their orange vests.

When the fire alarm sounds:

- Don your green vest, retrieve checklist and Orange emergency bag
- Alert all individuals in your assigned area to evacuate
- Direct building occupants and visitors to the Assembly Area
- Stand in a safe but prominent location, e.g. by the enunciator panel or in the assembly area, where Safety Officers and emergency personnel will see you
- Collect information about injured individuals, trapped or missing persons, fire, hazardous material spills or other hazards from safety officers and provide to Campus Security or first responders
- Provide information to evacuated occupants in the assembly area as appropriate
- Keep individuals away from the scene of the emergency

Never put your own safety at risk.

Pre emergency responsibilities

- Review emergency procedures and know the location of your assembly area
- Keep a current list of Safety Officers in your building
- Keep the Orange Emergency Bag in an accessible location
- Be familiar with the location of the following emergency equipment:
  - Fire alarm pull stations
  - Fire extinguishers
  - Emergency exits
  - Evacuation routes
  - First aid supplies
  - Emergency supplies
  - Emergency shower and eye wash stations
- Report hazardous conditions such as obstructed emergency egress, inoperable emergency signage or damaged emergency equipment to Safety x6727 or Facilities x4717
- Identify individuals with mobility challenges and help them develop alternate evacuation plans
- Attend Building Coordinator/Safety Officer training
- Consider attending hands-on fire extinguisher training
SAFETY OFFICER CHECKLIST:

Safety Officers are assigned to each floor within a building to provide assistance to building occupants and visitors during evacuations and other emergency situations. Safety Officers direct the evacuation of their assigned floor to the nearest emergency exit; prevent individuals from using the elevators, provide pertinent information about individuals remaining inside the building or about hazardous conditions to the Building Coordinator, direct individuals to the assembly area and discourage individuals from re-entering the building until it has been cleared by Campus Security or the Pasadena Fire Department.

Floor Wardens are identifiable by their orange vests.

When the fire alarm sounds:

- Don your orange vest and retrieve checklist
- Alert all individuals in your assigned area to evacuate
- If it is safe to do so, quickly check floor, washrooms, closed work areas to ensure all individuals have evacuated
- Close (do not lock) all doors as you exit the area
- Once outside, provide the Building Coordinator with information about the condition of your floor. This should include information about injured individuals, trapped or missing persons, fire, hazardous material spills or other hazards
- Provide information to evacuated occupants in the assembly area as directed by the Building Coordinator
- Keep individuals away from the scene of the emergency

Never put your own safety at risk.

Pre-emergency responsibilities

- Review emergency procedures and know the location of your assembly area
- Be familiar with the location of the following emergency equipment:
  - Fire alarm pull stations
  - Fire extinguishers
  - Emergency exits
  - Evacuation routes
  - First aid supplies
  - Emergency supplies
  - Emergency shower and eye wash stations
- Identify individuals with mobility challenges
- Attend Safety Officer training
- Consider attending hands-on fire extinguisher training
BUILDING ASSESSMENT TEAM (BAT) REPORT FORM

Building Name: ____________________________________________

Location Info (Address, Intersection, Part of Bldg. or Room #): ____________________________________________

BAT Inspector (Name): __________________________ Date: __________ Time: __________ AM/PM

Div./Dept.: __________________________ Phone: __________________ Fax: __________________

SECTION 1: Completed by Building Assessment Team (BAT) return form to local DCC/ASAP

I. PRELIMINARY BUILDING ASSESSMENT REPORT

1. Collapse, partial collapse or building off foundation □ □
2. Building, or a story, noticeably leaning □ □
3. Obvious severe damage/distress □ □
4. Chimney, parapet, or other falling hazard □ □
5. Severe ground or slope movement present □ □
6. Severe window glass breakage or ‘X’ building cracks between windows (>60% in a story) □ □
7. Any visible indication of a fire/smoke (Call 5000 to report a fire) □ □
8. Any visible indication of a hazardous materials release (Call 5000 to report Hazardous Materials) □ □

II. SIGNAGE

(Check Closed on sign and post on every building entrance if the answer = "Yes" to any of the previous conditions)

How is the building posted? □ Closed □ Caution

NOTE: Official Building Status (Open/Closed/Limited Entry) will be determined & authorized by the Institute EOC.

SECTION 2: Only complete this section if information is readily available. Do not re-enter a building assessed as Closed

I. OPERATIONAL CONDITIONS/UTILITIES

YES/ON/OK NO/OFF/NOT OK UNKNOWN SHUT OFF? OTHER
(Explain Below*)

1. Power/Generator □ □ □ □
2. Water □ □ □ □
3. Gas□ □ □ □ □
4. Communications (Phone/Network) □ □ □ □
5. Ventilation □ □ □ □

II. OPERATIONAL CONDITIONS/HAZARDS

NO YES UNKNOWN

6. Fire/Smoke □ □ □
7. Gas Leak/Smell of Gas □ □ □
8. Hazardous Materials Spill □ □ □
9. Flooding □ □ □
10. Interior Debris □ □ □

* Add notes or sketches here to provide more information

SECTION 3: Completed by DCC (send copy to EOC ASAP) Priority: HIGH MEDIUM LOW
Report Rec’d By: __________________________ Date: __________ Time: __________

SECTION 4: Completed by EOC Priority: HIGH MEDIUM LOW
Report Rec’d By: __________________________ Date: __________________________ Time: _____

The primary EOC is located in the Facilities building (#83). Directly across from Chandler
DCC STATUS REPORT FORM

Deliver To:
In Person: Facilities (Building 83)
Fax: 626-577-7543
Phone: 626-395-4776

Reporting Department ____________________ Date/Time ________________

Reported by: ____________________________ Contact number __________

Assistance Requested? Yes o No o

1. Type of Problem/Damage: Please indicate Specific Locations

2. Communications Available:
   a. Telephone:
      Number: (___) ___ - ___ ___
   b. Two-way Radio: Frequency:
   c. FAX:
      Number: (___) ___ - ___ ___

3. Special Problems/Needs: ________________________________________________
CHAIN OF COMMAND

Jean-Laurent Rosenthal
*Division Chair*
626-395-4058

Candace Younger
*Division Administrator*
626-395-3498

Ralph Adolphs
*Director, CBIC*
626-395-4486 (office)

Mike Tyszka,
*Associate Director, CBIC*
626-395-5796 (office)
626-475-0425 (cell)

Ralph E. Lee
*Manager of MRI Education & Tech, CBIC*
626-395-5834 (office)
714-396-0219 (cell)

CBIC KEY STAFF

<table>
<thead>
<tr>
<th>Name</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ralph Lee</td>
<td>First Aid, CPR</td>
</tr>
<tr>
<td>Mary Martin</td>
<td>First Aid</td>
</tr>
<tr>
<td>Mike Tyszka</td>
<td>First Aid, CPR</td>
</tr>
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## CBIC ESSENTIAL FUNCTIONS

<table>
<thead>
<tr>
<th>Magnets</th>
<th>Prisma (B102E3)</th>
<th>TIM12 (B106N)</th>
<th>7T (B106J)</th>
<th>4.7T (B106E1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnet Field Shutdown (Quench Button)</td>
<td>Ralph Lee</td>
<td>Audo Flores</td>
<td>Martin Kunth</td>
<td>Vasileios Christopoulos</td>
</tr>
<tr>
<td></td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
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<table>
<thead>
<tr>
<th>Equipment Room</th>
<th>B102E4</th>
<th>B102E4</th>
<th>B106J2</th>
<th>B106E2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Power Shutoff</td>
<td>Ralph Lee</td>
<td>Audo Flores</td>
<td>Martin Kunth</td>
<td>Vasileios Christopoulos</td>
</tr>
<tr>
<td></td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
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<tr>
<td>Water Shutoff</td>
<td>Ralph Lee</td>
<td>Audo Flores</td>
<td>Martin Kunth</td>
<td>Vasileios Christopoulos</td>
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<td></td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
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<table>
<thead>
<tr>
<th>Cryogen tanks</th>
<th>B106E4</th>
<th>B106 Hallway</th>
<th>B106E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Status</td>
<td>Ralph Lee</td>
<td>Ralph Lee</td>
<td>Vasileios Christopoulos</td>
</tr>
<tr>
<td></td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
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</table>

<table>
<thead>
<tr>
<th>Wet Labs</th>
<th>Hazardous Chemicals (B106J1)</th>
<th>Hazardous Chemicals (B106F)</th>
<th>Freezer (B106F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check for damage/spills</td>
<td>George Lu</td>
<td>George Lu</td>
<td>George Lu</td>
</tr>
<tr>
<td></td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
<td>Mike Tyszka</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data and Records</th>
<th>MRI Data (B102E4)</th>
<th>Admin Data (B102B)</th>
<th>Human Subject Records (B102E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move records/data if needed</td>
<td>Ralph Lee</td>
<td>Mary Martin</td>
<td>Ralph Lee</td>
</tr>
<tr>
<td></td>
<td>Remya Nair</td>
<td>Ralph Lee</td>
<td>Mike Tyszka</td>
</tr>
<tr>
<td>Check data storage</td>
<td>Ralph Lee</td>
<td>Remya Nair</td>
<td></td>
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<table>
<thead>
<tr>
<th>Mouse Holding</th>
<th>B106L1</th>
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<tbody>
<tr>
<td>Check Status</td>
<td>OLAR</td>
</tr>
<tr>
<td></td>
<td>George Lu</td>
</tr>
</tbody>
</table>
SPECIAL HAZARDS WITHIN THE CBIC

**Magnetic Field Hazards**: Emergency Responders should not enter any of the magnet rooms (B102E3, B106M, B106J3 or B106E1) unless they have removed all ferromagnetic materials, including tools, cell phones, radios, oxygen tanks, ladders, keys and other small items that could become projectiles in the magnet rooms.

**Asphyxiation Hazards**: Responders should not enter any of the magnet rooms (B102E3, B106M, B106J3 or B106E1) if oxygen sensor alarms are sounding. This would mean that normal air has been displaced by nitrogen and/or helium gas resulting from a magnet quench or cryogen leak.

**Extreme Cold Hazards**: Inert liquid cryogens (nitrogen and/or helium) may be present in the magnet rooms (B102E3, B106M, B106J3 or B106E1) following damage to the magnet dewar, for example following an earthquake.

**Electrocution Hazards**: Responders should take note that there is high voltage equipment in the MRI equipment rooms (B102E4, B106J2 or B106E2) that may present an electric shock hazard. These rooms also have water-cooling systems that may leak or be damaged in the event of an earthquake.

**Chemical Hazards**: Hazardous chemicals, including concentrated mineral acids and liquid solvents, are stored in the wet lab areas (B106J1 and B106F).

ACCESS CONTROL

CBIC access is controlled through wall-mounted card key readers.

The main access categories are:

1. General access to human MRI Zone 2 (B102)
2. Restricted access to human MRI Zones 3 and 4 (B102E), including (a)
3. Restricted access to small animal area (B106), including (a)
4. Restricted access to non-human primate area (B106E) including (a) and (c).

Master keys are available for entry to each room and are held by Mary Martin, Mike Tyszka and Ralph Lee.
<table>
<thead>
<tr>
<th>Name</th>
<th>Extension</th>
<th>Alternative #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ralph Adolphs</td>
<td>x4486</td>
<td></td>
</tr>
<tr>
<td>Mike Tyszka</td>
<td>x5796</td>
<td>626-475-0425</td>
</tr>
<tr>
<td>Ralph Lee</td>
<td>x5834 or x5858</td>
<td>714-396-0219</td>
</tr>
<tr>
<td>Mary Martin</td>
<td>X5884</td>
<td>626-318-1142</td>
</tr>
<tr>
<td>Remya Nair</td>
<td>x6506</td>
<td></td>
</tr>
<tr>
<td>Martin Kunth</td>
<td>x5847</td>
<td>626-460-9825</td>
</tr>
<tr>
<td>George Lu</td>
<td>x8560</td>
<td></td>
</tr>
<tr>
<td>Vasileios Christopoulos</td>
<td>x5854</td>
<td>612-275-1341</td>
</tr>
<tr>
<td>Audo Flores</td>
<td>x6523 or x5791</td>
<td>626-395-6523</td>
</tr>
</tbody>
</table>