

Ohio Bureau of Workers' Compensation
Division of Safety and Hygiene
13430 Yarmouth Drive
Pickerington, OH 43147-8310



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November 15, 2005

Mr. Michael Swartz
President
Cleveland State University
2121 Euclid Avenue, Office of the President
Cleveland, OH 44115-2214

RE: Fatality Report No. 050708F

Dear Mr. Swartz:

On August 16, 2005, Glenn McGinley, Safety and Health Consultant, conducted an investigation based upon a fatality reported to our office.

Enclosed are the Accident Investigation Report, Notice of Violation, Applicable Citations.

We encourage you to inform your employees of any actions you take. This knowledge will assist them in doing their part to maintain a safe and healthful workplace, and it will let them know about your concern for their protection.

Your cooperation in maintaining a safe and health-conscious workplace is appreciated. If you have any questions or concerns, please do not hesitate to contact us at (614) 644-2246 or toll free at (800) 671-6858.

Sincerely,

Wesley S. Hohl,
Senior Manager
Division of Safety and Health
Public Employment Risk Reduction Program

WSH:par

Enclosure(s)

SHO: M1474
Visit # 050708F
Cleveland State University

Introduction

This report provides the results of an occupationally related fatality investigation. When referring to this report, please reference the SHO number and visit number.

During the period between August 16, 2005 and October 06, 2005, a Public Employment Risk Reduction Program (PERRP) on-site enforcement inspection was conducted at Cleveland State University (CSU), in Cleveland, Ohio. This visit was initiated in response to a report of an employee fatality in the Basic Sciences Building on the CSU campus at 2399 Euclid Avenue, Cleveland, Ohio that occurred on August 16, 2005 at approximately 10:50 A.M.

On August 16, 2005 an opening conference was held in the office of the Dean of the College of Science. The following persons were in attendance at this conference:

Mary Jane Saunders, Dean, College of Science;
Betty Bonder, Associate Dean, College of Science;
Paul Novak, Director of Environmental Health and Safety;
Lester Mitchell, Chief, Cleveland State University Police Department;
Sonali Wilson, University Legal Counsel;
James Budzik, Special Counsel for CSU; and,
Nicholas DeBaltzo, Special Counsel for CSU
Anthony Medina, Special Investigator, BWC Safety Violations Investigation Unit (SVIU).

At the opening conference, I, Glenn McGinley, presented my credentials and discussed the scope and purpose of the investigation. It was requested of Cleveland State University to provide a copy of all written safety and health programs, injury/illness records (300 log, 300A summary, and 301 incident forms) and training records for review. The scope of this request was explained to all in attendance.

On August 16, 2005 at 3:20 P.M., following the opening conference, an inspection was conducted of the incident scene, S1253. I was accompanied on the site inspection by Mary Jane Saunders, Betty Bonder, Paul Novak, Lester Mitchell. Also in attendance during the initial site visit were Chris Wilson, Director, CSU Department of Utilities, and Harry Ratka, Electrical Foreman, CSU Department of Utilities. During the inspection, university representatives informally described their observations and recollections of events that occurred earlier in the day. Mr. Ratka explained the testing he performed immediately upon arrival after the incident. A suspect light fixture was examined and PERRP requested that the university permanently remove the fixture from service and to further secure it by removal of the attachment plug. University representatives cooperated with this request and Mr. Ratka removed the attachment plug from the piece of equipment.

As a result of the inspection, the Public Employment Risk Reduction Program (PERRP) requested the University Police Department secure in its evidence storage locker several items from the incident scene. The secured items included: (1) 72" Lithonia fluorescent luminaire (light fixture); (4) 72" General Electric fluorescent lamps, F72T12, CW-1500, 165W; (1) Leviton ground bypass adapter; and (1) Intermatic electrical timer. The room (S1253) was secured by Paul Novak who rekeyed the lock and the door was sealed with evidence tape by the University Police Department.

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Interviews of Cleveland State University employees and graduate students were conducted on the following dates: 08/24/2005; 08/25/2005; 08/31/2005; and 09/01/2005.

Subsequent visits of the incident scene were conducted on August 17 and 18, 2005. On September 12, 2005, an incident site visit was conducted in conjunction with investigators from the Cuyahoga County Coroner's office, including a forensic electrician (Dolence Electric) hired by the coroner and a forensic electrician hired by CSU (Paulus Engineering). On September 15, 2005 a review of written programs, injury and illness records and training documentation was conducted in the office of Paul Novak.

On September 20, 2005, Glenn McGinley, Michael Rea (PERRP Administrator), Anthony Medina (BWC/SVIU) met representatives of CSU and the coroner at the offices of Dolence Electric to conduct tests of various electrical components secured from the incident scene. Results of the testing indicated that the luminaire exhibited damage to an electrical transformer (fluorescent ballast) and the damage had created an equipment ground fault condition between the transformer and the metal luminaire canopy.

A conference for authorized employee representatives was held on September 22, 2005. At this conference a summary of the incident was reviewed in the presence of employer representation. Immediately following, employee representatives were provided with an opportunity to privately provide information relevant to the investigation. Present at this conference were the following:

Employer Representatives

Bob Pietrykowski, Director of Labor Relations
Paul Novak, Director of Environmental Health and Safety
Vijay Konangi, Vice Provost for Academic Affairs and Faculty Relations
Sonali Wilson, University Legal Counsel
James Budzik, Special Counsel for CSU

Employee Representatives

Andi Lo Presti, Office Coordinator, President SEIU
Gail Meredith, Health Sciences Librarian
Paul Doerder, Professor, AAUP President
Johnnie Spates-Greene, Chief Steward CWA Local 4309
Margaret Jones, Director CWA

BWC/PERRP Representatives

Michael Rea, Administrator, BWC/PERRP
Glenn McGinley, Safety and Health Consultant, BWC/PERRP

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A closing conference was conducted on October 06, 2005 in the offices of the President, Cleveland State University in Cleveland, Ohio. During the conference, I reviewed proposed citations and employer rights and responsibilities under OAC 4167 and the Public Employment Risk Reduction Program. Employer representatives were provided with an opportunity to object to proposed citations and present evidence of abatement of the identified hazards. The following persons were in attendance at the closing conference:

Employer Representatives

Michael Swartz, CSU President
Bob Pietrykowski, Director of Labor Relations
Paul Novak, Director of Environmental Health and Safety
Vijay Konangi, Vice Provost for Academic Affairs and Faculty Relations
Sonali Wilson, University Legal Counsel
James Budzik, Special Counsel for CSU
Nicholas DeBaltzo, Special Counsel for CSU
Brian Johnson, Director Marketing and Public Affairs

Employee Representatives

Andi Lo Presti, Office Coordinator, SEIU President
Paul Doerder, Professor, AAUP President
Margaret Jones, Director CWA

BWC/PERRP Representatives

Glenn McGinley, Safety and Health Consultant, BWC/PERRP
Anthony Medina, Special Investigator, BWC/SVIU

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Incident Scene Description

Incident occurred in Cleveland State University biology laboratory, SI253 (Figure 1). This laboratory is located in the Basic Sciences Building, 2399 Euclid Avenue in Cleveland, Ohio.

SI253 was originally designed as a preparation area for an adjacent classroom, SI240. The room was most recently used as an experimental laboratory for graduate students of Dr. Mal. SI253 is approximately 35 feet long and 20 feet wide. Entry to the room can occur from two doors, a hallway door and a second doorway near a rear counter from the adjacent classroom.

Immediately to the right of the hallway entry door was a stainless steel counter and sinks. Positioned approximately 7 ½ inches from the stainless counter was a metallic rack with three levels (Figure 2). On the lower two levels were miscellaneous storage items. The upper level was provided with a piece of plywood shelving material. Immediately above the shelving material were two 72 inch fluorescent luminaries wired with flexible cords and hung from the metallic rack with copper wire.

The center counter (Figure 4) was modified with the addition of a wooden rack structure that supported nine (9) 36 inch fluorescent luminaires. A tenth luminary was found lying on the counter. Although the supported luminaries were not in current use, it appeared, based on the configuration, that they were energized by several flexible cord sets (extension cords). The luminaries were wired with flexible cords that passed through openings on the luminaries housings and were not provided with strain relief or a smooth surface upon which the cords could rest. On the rear counter was a drying oven, numerous bagged field samples of leaf material, a balance, and a centrifuge.

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Incident Scene Diagram and Photographs

Figure 1

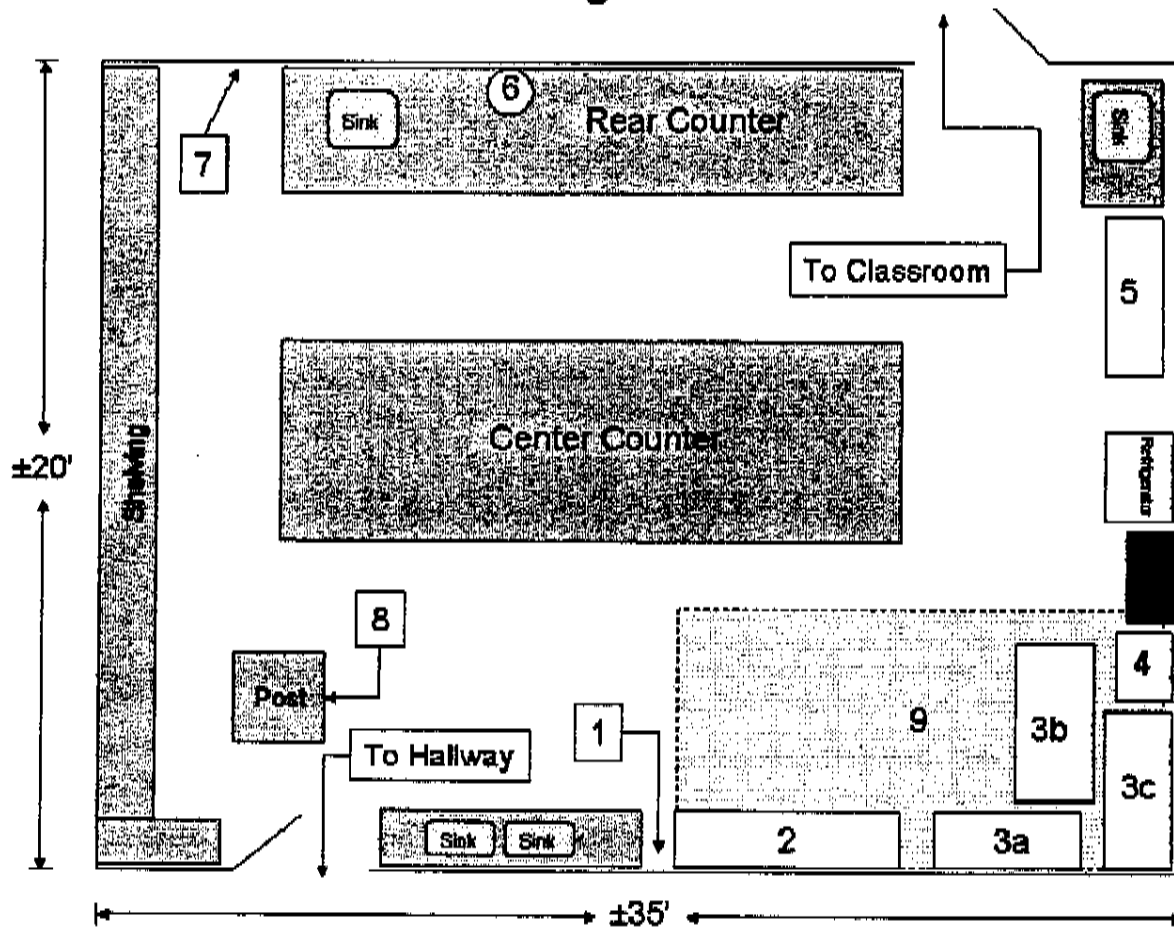


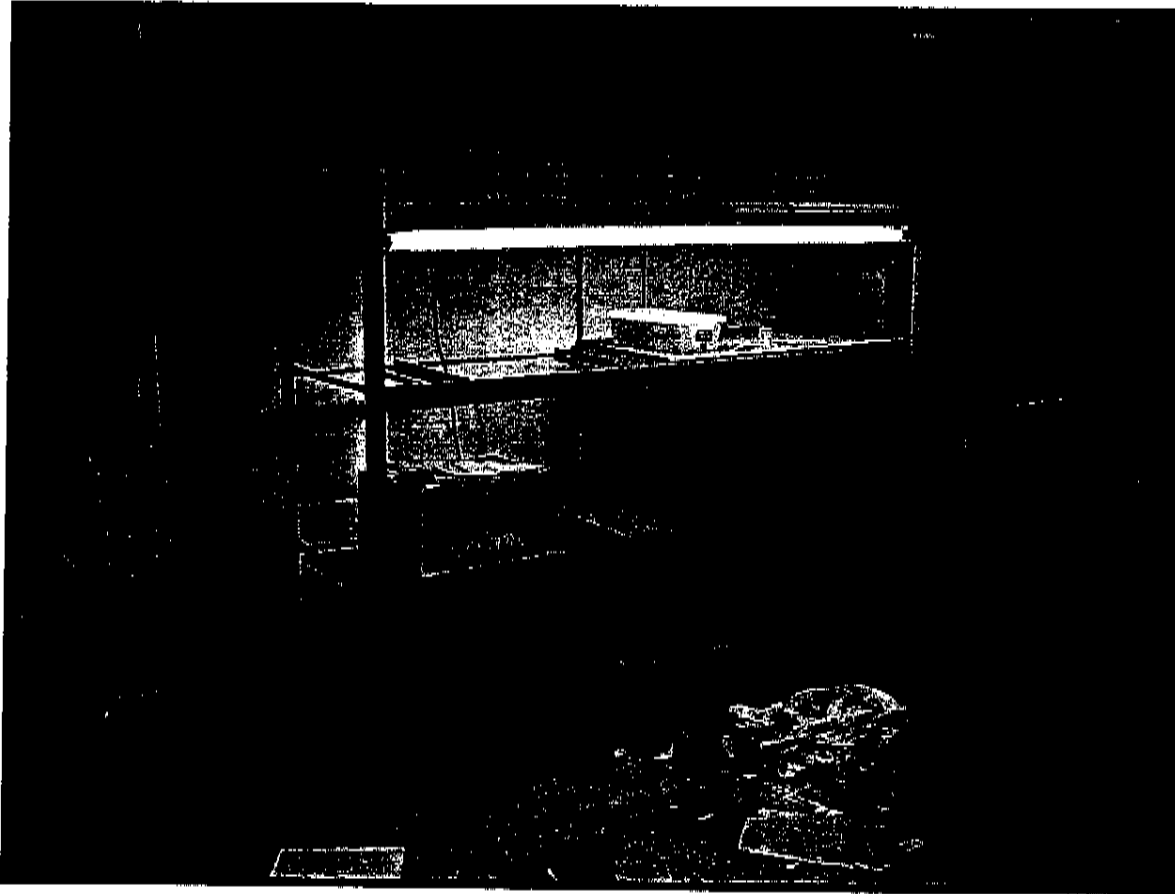
Diagram of Cleveland State University, S1253
 (Drawing Not To Scale)

Figure 1 Legend

1. Receptacle energizing the luminaries involved in the fatality incident.
2. Metal rack with two 6 foot (72") luminaries attached with copper wire.
3. (a, b, c) Smaller portable metal racks with suspended Winkler Sacks (insect extractors)
4. Portable cart
5. Desk used by graduate student
6. Damaged electric centrifuge
7. Uncovered electrical junction box
8. Mounted fire extinguisher
9. Damaged ACM floor tile

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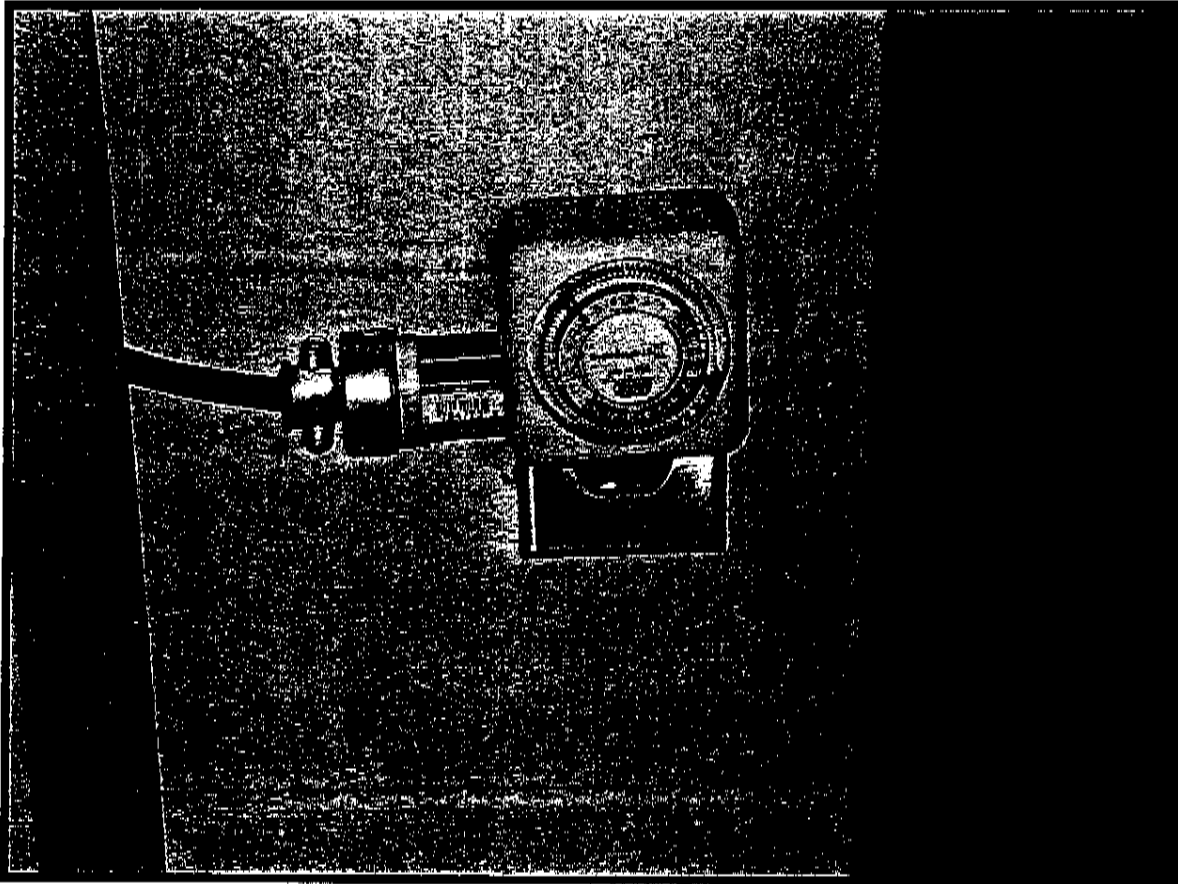
Figure 2



View of energized luminaries rack assembly in SI253 and surrounding area

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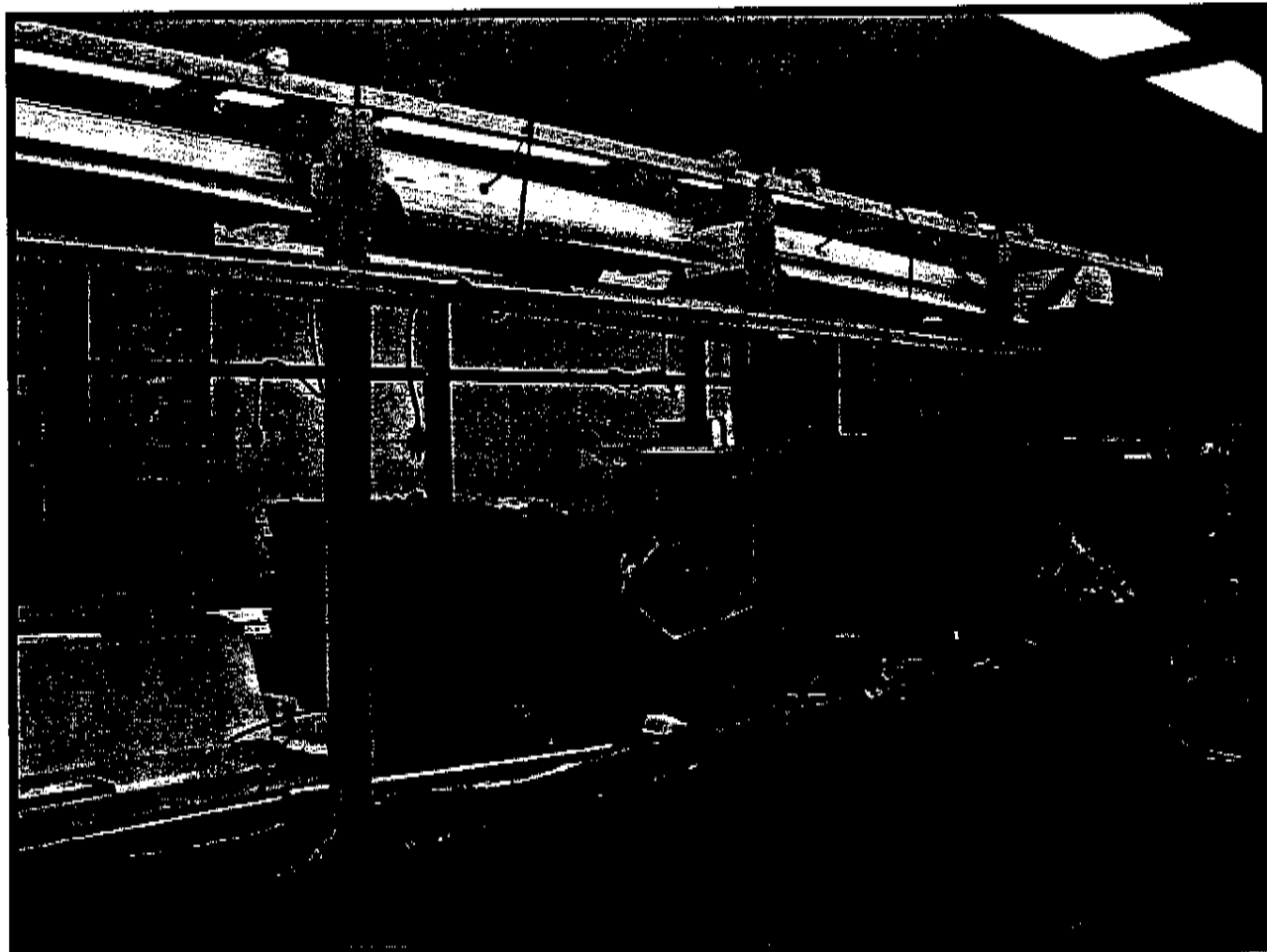
Figure 3



View of energized timer assembly in SI253

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Figure 4



View of center counter with wooden rack suspended luminaries

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Incident Summary Based on Interviews

Details are a summary of information derived from site observations by Glenn McGinley, Investigator and subsequent interviews with witnesses and co-workers.

Incident occurred in Cleveland State University biology laboratory, SI253. Dr. Tarun Mal, Associate Professor, Department of Biological, Geological and Environmental Sciences, was apparently electrocuted while energizing a light fixture in the laboratory. The following is a summary of events on the date of the incident:

- Dr. Mal entered SI253 at approximately 10:30 AM. He was accompanied by two graduate students, Vinola Vincent and Debroop Sarkar.
- Upon entry, Dr. Mal and Ms. Vincent discussed the equipment in the room and the possibility of moving an experiment from the greenhouse SI407 on the fourth floor to SI253. Mr. Sarkar entered the room and began to work at a desk (Figure 1, Location 5) in the room sorting experimental samples with his back to Dr. Mal and Ms. Vincent.
- Dr. Mal and Ms. Vincent decided the space in SI253 would be suitable for the experiment in the greenhouse SI407 and they began to move materials and equipment to create space for the experiment. They decided to utilize a rack with two 6 foot light fixtures suspended from the top level (Figure 1, Location 2).
- Dr. Mal showed Ms. Vincent a timer device to control the lighting equipment in the room and he set the current time on the timing device for 10:30AM and the light time for 8:00AM to 6:00PM.
- Once Dr. Mal showed Ms. Vincent the timing device and how to set it, he crouched down to plug it into the wall receptacle (Figure 1, Location 1).
- As Dr. Mal crouched down to plug in the timer, Ms. Vincent turned her back to him to get a notebook and when she turned back around, Dr. Mal was grasping the lighting rack and was "rigid."
- Ms. Vincent called out to Mr. Sarkar who was still working at the desk and he came over to assist Dr. Mal.
- As Mr. Sarkar approached Dr. Mal he noticed that he was non-responsive and that he was grasping the lighting rack with both hands.
- Mr. Sarkar grasped Dr. Mal by the shoulders and pulled him backward onto the floor (Figure 1 Location 9). Mr. Sarkar noticed that Dr. Mal was foaming at the mouth and he told Ms. Vincent to call 911.
- Ms. Vincent attempted to use her cellular phone but was unsuccessful and ran into the hallway and to the biology office for assistance. The secretary in the office (Nicole Catavolos, Secretary for BGES) called for help and Ms. Vincent asked two other professors for assistance.
- Dr. Andrea Corbett entered SI253 and began to administer CPR with the assistance of Mr. Sarkar, who read her directions from a First-Aid poster in the room.
- EMS personnel were escorted to the room by campus police and arrived at the room approximately 10 minutes later.
- Dr. Mal was then transported to St. Vincent Charity hospital where he was later pronounced dead.

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- Shortly after EMS transported Dr. Mal, university electricians arrived at SI253 and secured the electrical equipment.
- Upon their arrival, electrical foreman Harry Ratka found the light fixture plugged into a wall receptacle between the suspension rack and an adjacent sink. The fixture was plugged into a ground bypass adapter that was then attached to a timer device that was inserted into the wall receptacle.
- Using a volt meter, Mr. Ratka measured 397V from the rack to the adjacent sink.
- Mr. Ratka de-energized the receptacle by turning the circuit breaker "off." He then unplugged the light fixture from the wall receptacle.
- Once the light fixture attachment plug was removed from the receptacle, Mr. Ratka tested the receptacle wiring using a SureTest circuit analyzer and found the receptacle to be properly wired. This testing was photographed by Chris Wilson, CSU Director of Utilities
- Glenn McGinley, PERRP, arrived at the scene at 15:20 accompanied by Anthony Medina, BWC/SVIU
- Mr. McGinley entered the room with Mr. Medina and Paul Novak, CSU Director of Environmental Health and Safety.
- Shortly after Mr. McGinley's arrival, Mr Ratka returned with Mr. Wilson.
- The receptacle was retested with Mr. McGinley's SureTest circuit analyzer and the previous results were verified.
- With the fixture plugged into the timer device (but not into the receptacle) a continuity test was performed between the ungrounded conductor of the timer and the rack suspending the light fixtures. Continuity was confirmed over this path. A similar test was conducted on the second light fixture and the test was negative.
- The front light fixture lamps were removed and the fixture was removed from the rack by Mr. Ratka.
- Once the fixture was removed from the rack, the housing behind the lamps was removed exposing the fluorescent ballasts and wiring. There were no observed signs of arcing, significant damage, or miswiring of the fixture.
- The ballasts were observed to be rated for 800mA lamps and the lamps removed from the fixture were 1500mA lamps. Additional 1500mA lamps were also found in the room.
- Mr. McGinley requested that the fixture with the apparent wiring defect be disabled to prevent the inadvertent energization of the equipment. Mr. Ratka cut off the attachment plug from the fixture cord.
- Mr. McGinley requested that the lamps, the fixture, the plug, the timer, and the ground bypass adapter be secured by the University Police in their evidence room.
- On 08/17/2005, Mr. McGinley conducted additional continuity tests on the fixture at the University Police Headquarters. He was accompanied on this visit by Mr. Novak.
- Mr. McGinley determined that one of the ballasts had a positive continuity reading from the ungrounded primary conductor to the equipment ground conductor on the fixture case.

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References

Ohio Revised Code

- 4167.04, *Public employer's duty to provide safe employment*
- 4167.05, *Employee's duty to comply with provisions*

United States Department of Labor — Occupational Safety and Health Administration (standards incorporated by reference)

- 29 CFR 1910.132, *Personal Protective Equipment, General Requirements*
- 29 CFR 1910.133, *Eye and face protection*
- 29 CFR 1910.141, *Sanitation*
- 29 CFR 1910.157, *Portable fire extinguishers*
- 29 CFR 1910.303, *(Electrical) General requirements*
- 29 CFR 1910.304, *(Electrical) Wiring design and protection*
- 29 CFR 1910.305, *(Electrical) Wiring methods, components, and equipment for general use*
- 29 CFR 1910.332, *(Electrical) Training*
- 29 CFR 1910.334, *(Electrical) Use of equipment*
- 29 CFR 1910.1001, *Asbestos*
- 29 CFR 1910.1450, *Occupational exposure to hazardous chemicals in laboratories*
- CPL 02-02-063 - *Inspection Procedures for Occupational Exposure to Asbestos Final Rule 29 CFR Parts 1910.1001, 1926.1101, and 1915.1001*

Under authority of the Ohio Revised Code section 4167.10 (D), citations for the following alleged violations have been issued. The enclosed citations must be prominently posted upon receipt in areas accessible to the affected public employees. A public employer must seek the approval of the administrator or the administrator's designee to post citations in a location other than the site of a violation.

Abatement verification. Each employer shall submit to the Superintendent, BWC, an abatement report with respect to each citation item, and do so within fourteen calendar days after the abatement date for the citation item. Receipt of an employer's documents by the agency under this regulation does not constitute an agreement that the employer is in compliance. Documentation of abatement verification must be posted in areas accessible to the affected public employees. [OAC 4167-13-01]

NOTE: During the closing conference conducted in the office of the President on 10/06/2005, representatives of Cleveland State University (CSU) indicated that several items have been abated. Items for which abatement evidence was presented at the closing conference have been noted in this report. However, documentation must be provided to PERRP that shows appropriate, complete, and adequate abatement verification. This information must be received for all items and each citation must remain posted until all items have been abated. A copy of an example Abatement Verification Report form was provided at the closing conference for documenting hazard abatement.

The Findings in this report are not necessarily limited to the tasks and location involved in this fatality investigation. Failure to address these conditions at other CSU locations may constitute a willful failure to abate if future inspections are conducted in accordance with the provisions of ORC 4167.10 and OAC 4167-8-01.

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Investigative Findings

ITEM # 1 EVIDENCE OF ABATEMENT PRESENTED AT CLOSING CONFERENCE

Condition: Listed or labeled electrical equipment was not used or installed in accordance with instructions included in the listing or labeling.

Findings: Cleveland State University, SI253, Intermatic ungrounded electrical timers intended to be used with ungrounded electrical equipment were used with grounded luminaires (light fixtures).

Standard: 29 CFR 1910.303(b)(2)

ITEM # 2 EVIDENCE OF ABATEMENT PRESENTED AT CLOSING CONFERENCE

Condition: The electrical path to ground from a circuit, piece of equipment or enclosure was not permanent and continuous.

Findings:

1. Cleveland State University, SI253, grounded luminaire (light fixture) was connected to a receptacle with an ungrounded electrical timing device.
2. Cleveland State University, SI253, receptacle immediately to right of entry door, Equipment ground connection was not continuous due to inadequate blade tension.

Standard: 29 CFR 1910.304(f)(4)

ITEM # 3 EVIDENCE OF ABATEMENT PRESENTED AT CLOSING CONFERENCE

Condition: Flexible electrical cord was not connected to a device or fitting so as to prevent strain to a joint or terminal screw.

Findings: Cleveland State University, SI253, flexible cords were not connected to twelve (12) luminaires [two (2) 72" Lithonia fluorescent light fixtures and ten (10) 36" Lithonia fluorescent light fixtures] so that strain relief was provided for connections.

Standard: 29 CFR 1910.305(g)(2)(iii)

ITEM # 4 EVIDENCE OF ABATEMENT PRESENTED AT CLOSING CONFERENCE

Condition: Adapters which interrupted the continuity of the electric equipment grounding connection were used with grounding type equipment.

Findings: Cleveland State University, SI253, grounded luminaire (72" Lithonia fluorescent light fixture) connected to an ungrounded timer device using a ground by-pass adapter that did not maintain the continuity of the equipment grounding connection.

Standard: 29 CFR 1910.334(a)(3)(iii)

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ITEM # 5 EVIDENCE OF ABATEMENT PRESENTED AT CLOSING CONFERENCE

Condition: Portable electric equipment was found with a defect or evidence of damage that might expose an employee to injury.

Findings: Cleveland State University, S1253, electrical equipment (International Equipment Co. centrifuge) was found with a damaged equipment ground. The defective or damaged item (centrifuge) was not removed from service.

Standard: 29 CFR 1910.334(a)(2)(ii)

ITEM # 6 EVIDENCE OF ABATEMENT PRESENTED AT CLOSING CONFERENCE

Condition: Flexible electrical cord or cable was used as a substitute for the fixed wiring of the structure.

Findings:

1. Cleveland State University, S1253, flexible cord sets (extension cords) were used as a substitute for fixed wiring with luminaries (36" Lithonia fluorescent light fixtures)

Standard: 29 CFR 1910.305(g)(1)(iii)(A)

ITEM # 7

Condition: An employee was not trained in and familiar with the safety-related work practices required by 29 CFR 1910.331 through 29 CFR 1910.335 that pertained to his or her respective job assignment.

Findings: Cleveland State University, employees were not trained in electrical safe work practices required by 29 CFR 1910.331 through 29 CFR 1910.335 that pertained to their respective job assignments. Specifically, employees were not trained in the safe use of flexible cords, ground by-pass adapters, outlet capacities, and the importance of equipment ground connections.

Standard: 29 CFR 1910.332(b)(1)

ITEM # 8

Condition: Every enclosed workplace was not constructed, equipped, and maintained, so far as reasonably practicable, as to prevent the entrance or harborage of rodents, insects, and other vermin. A continuing and effective extermination program was not instituted where their presence was detected.

Findings: Cleveland State University, S1253, was infested with cockroaches and an effective extermination program was not instituted.

Standard: 29 CFR 1910.141(a)(5)



Glenn McGinley, Safety and Health Consultant
Division of Safety and Hygiene
Public Employment Risk Reduction Program

October 14, 2005

VIOLATION NOTICE

TO: Mr. Michael Swartz
President
Cleveland State University
2121 Euclid Avenue, Office of the President
Cleveland, OH 44115-2214

An inspection was conducted on August 16, 2005, at Cleveland State University, 2399 Euclid Avenue, Biology Sciences Building, Cleveland, Ohio. The inspection revealed conditions, which are not in compliance with the Ohio Public Employment Risk Reduction Standards as adopted by the Ohio Bureau of Workers' Compensation, Division of Safety and Hygiene, Public Employment Risk Reduction Program. The location and nature of the violation(s) is described in the enclosed citation(s) with references to applicable standards, rules, regulations, and provisions of the said Public Employment Risk Reduction Program. These conditions must be abated on or before the date shown on each violation enumerated.

The Public Employment Risk Reduction Program requires that a copy of the enclosed citation(s) be prominently posted upon receipt in a conspicuous place at or near each place a violation referred to in the citation occurred unless other provisions have been approved by the Administrator of the Public Employment Risk Reduction Program. It must remain posted until all violations cited therein are corrected, or for three (3) working days, whichever period is longer.

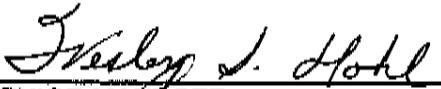
The Public Employer has the right to contest any or all parts of the citation(s). The Public Employer has fourteen (14) days after receipt of the citation in which to notify the Administrator of the Public Employment Risk Reduction Program of the desire to contest the citation(s). **The contest of the citation(s) by the employer must include the factual basis for contesting each provision of the act, standard regulation, rule, or order issued by the Administrator.** The Public Employee and Public Employee Representative have the right to contest the abatement dates within fourteen (14) days after receipt of the citation(s). If within fourteen (14) days after receipt of a citation(s) files notice of contest, the Administrator shall hold an adjudication hearing in conformance with Chapter 119 of the Ohio Revised Code.

Any party who is adversely affected by a final order of the Administrator of the Public Employment Risk Reduction Program and who has exhausted all administrative appeals from such order, may appeal the order, within thirty (30) days of the receipt of a final order, to the Court of Common Pleas of Franklin County or to the Court of Common Pleas of the county in which the alleged violation(s) occurred.

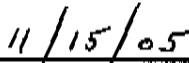
Each employer shall submit to the Administrator an abatement report with respect to each citation item within fourteen (14) calendar days after the abatement for the citation item. The Administrator may require progress reports in a citation where multi-step and/or long term abatement is deemed appropriate.

If a Public Employer, Public Employee, or Public Employee Representative willfully fails to comply with any final order of the Administrator, the Administrator may apply to the Court of Common Pleas for an injunction, restraining order, or any other appropriate relief compelling the Public Employer, Public Employee, or Public Employee Representative to comply with such order. The court may impose a civil penalty of not more than five hundred dollars (\$500.00) per day per violation and not to exceed ten thousand dollars (\$10,000.00) per violation.

Any questions concerning the above information should be directed to Mr. Michael F. Rea, Public Employment Risk Reduction Program, Program Manager, (614) 644-2246.



SENIOR MANAGER
PUBLIC EMPLOYMENT RISK REDUCTION PROGRAM



DATE

STATE OF OHIO

**Public Employment Risk Reduction Program
Division of Safety and Hygiene
Ohio Bureau of Workers' Compensation**

CITATION:

**Report Number: 050708F
SHO Number: M1474
Inspection Date: 8/16/2005
Issuance Date: 11/17/2005**

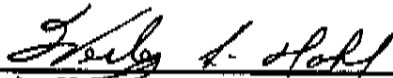
Citation Number: 1 Type of Violation: Serious

Abatement Date: 12/30/2005

Standard: 29 CFR 1910.303(b)(2)

Condition: Listed or labeled electrical equipment was not used or installed in accordance with instructions included in the listing or labeling.

Finding: Cleveland State University, SI253, Intermatic ungrounded electrical timers intended to be used with ungrounded electrical equipment were used with grounded luminaires (light fixtures).



**Senior Manager
Public Employment Risk Reduction Program**

This Notice of Violation Must be Posted

STATE OF OHIO
Public Employment Risk Reduction Program
Division of Safety and Hygiene
Ohio Bureau of Workers' Compensation

CITATION:

Report Number: 050708F
SHO Number: M1474
Inspection Date: 8/16/2005
Issuance Date: 11/17/2005

Citation Number: 2 Type of Violation: Serious Abatement Date: 12/30/2005

Standard: 29 CFR 1910.304(f)(4)

Condition: The electrical path to ground from a circuit, piece of equipment or enclosure was not permanent and continuous.

Finding:

- 1. Cleveland State University, SI253, grounded luminaire (light fixture) was connected to a receptacle with an ungrounded electrical timing device.**
- 2. Cleveland State University, SI253, receptacle immediately to right of entry door, Equipment ground connection was not continuous due to inadequate blade tension.**


Senior Manager
Public Employment Risk Reduction Program

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STATE OF OHIO
Public Employment Risk Reduction Program
Division of Safety and Hygiene
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CITATION:

Report Number: 050708F
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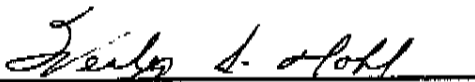
Citation Number: 3 Type of Violation: Serious

Abatement Date: 12/30/2005

Standard: 29 CFR 1910.305(g)(2)(iii)

Condition: Flexible electrical cord was not connected to a device or fitting so as to prevent strain to a joint or terminal screw.

Finding: Cleveland State University, SI253, flexible cords were not connected to twelve (12) luminaires [two (2) 72" Lithonia fluorescent light fixtures and ten (10) 36" Lithonia fluorescent light fixtures] so that strain relief was provided for connections.



Senior Manager
Public Employment Risk Reduction Program

This Notice of Violation Must be Posted

STATE OF OHIO

**Public Employment Risk Reduction Program
Division of Safety and Hygiene
Ohio Bureau of Workers' Compensation**

CITATION:

**Report Number: 050708F
SHO Number: M1474
Inspection Date: 8/16/2005
Issuance Date: 11/17/2005**

Citation Number: 4 Type of Violation: Serious

Abatement Date: 12/30/05

Standard: 29 CFR 1910.334(a)(3)(iii)

Condition: Adapters which interrupted the continuity of the electric equipment grounding connection were used with grounding type equipment.

Finding: Cleveland State University, SI253, grounded luminaire (72" Lithonia fluorescent light fixture) connected to an ungrounded timer device using a ground by-pass adapter that did not maintain the continuity of the equipment grounding connection.



**Senior Manager
Public Employment Risk Reduction Program**

This Notice of Violation Must be Posted

STATE OF OHIO
Public Employment Risk Reduction Program
Division of Safety and Hygiene
Ohio Bureau of Workers' Compensation

CITATION:

Report Number: 050708F
SHO Number: M1474
Inspection Date: 8/16/2005
Issuance Date: 11/17/2005

Citation Number: 5 Type of Violation: Serious Abatement Date: 12/30/05

Standard: 29 CFR 1910.334(a)(2)(ii)

Condition: Portable electric equipment was found with a defect or evidence of damage that might expose an employee to injury.

Finding: Cleveland State University, SI253, electrical equipment (International Equipment Co. centrifuge) was found with a damaged equipment ground. The defective or damaged item (centrifuge) was not removed from service, and employees were permitted to use it although repairs and tests necessary to render the equipment safe had not been made.



Senior Manager
Public Employment Risk Reduction Program

This Notice of Violation Must be Posted

STATE OF OHIO

**Public Employment Risk Reduction Program
Division of Safety and Hygiene
Ohio Bureau of Workers' Compensation**

CITATION:

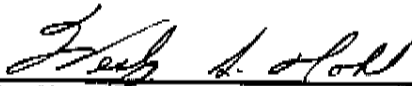
**Report Number: 050708F
SHO Number: M1474
Inspection Date: 8/16/2005
Issuance Date: 11/17/2005**

Citation Number: 6 Type of Violation: Other Than Serious Abatement Date: 12/30/05

Standard: 29 CFR 1910.305(g)(1)(iii)(A)

Condition: Flexible electrical cord or cable was used as a substitute for the fixed wiring of the structure.

Finding: Cleveland State University, SI253, flexible cord sets (extension cords) were used as a substitute for fixed wiring with luminaries (36" Lithonia fluorescent light fixtures)



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Division of Safety and Hygiene
Ohio Bureau of Workers' Compensation**

CITATION:

**Report Number: 050708F
SHO Number: M1474
Inspection Date: 8/16/2005
Issuance Date: 11/17/2005**

Citation Number: 7 Type of Violation: Serious Abatement Date: 2/25/06

Standard: 29 CFR 1910.332(b)(1)

Condition: An employee was not trained in and familiar with the safety-related work practices required by 29 CFR 1910.331 through 29 CFR 1910.335 that pertained to his or her respective job assignment.

Finding: Cleveland State University, employees were not trained in electrical safe work practices required by 29 CFR 1910.331 through 29 CFR 1910.335 that pertained to their respective job assignments. Specifically, employees were not trained in the safe use of flexible cords, ground by-pass adapters, outlet capacities, and the importance of equipment ground connections.



**Senior Manager
Public Employment Risk Reduction Program**

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STATE OF OHIO
Public Employment Risk Reduction Program
Division of Safety and Hygiene
Ohio Bureau of Workers' Compensation

CITATION:

Report Number: 050708F
SHO Number: M1474
Inspection Date: 8/16/2005
Issuance Date: 11/17/2005

Citation Number: 8 Type of Violation: Other Than Serious Abatement Date: 12/30/05

Standard: 29 CFR 1910.141(a)(5)

Condition: Every enclosed workplace was not constructed, equipped, and maintained, so far as reasonably practicable, as to prevent the entrance or harborage of rodents, insects, and other vermin. A continuing and effective extermination program was not instituted where their presence was detected.

Finding: Cleveland State University, SI253, was infested with cockroaches and an effective extermination program was not instituted.



Senior Manager
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