

國立台灣科技大學環安室電子報創刊號

Office of Environment, Safety and Hygiene E-NEWS NO.1



本期內容

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預防靜電事故發生，最常見靜電防治為接地。

To prevent electrostatic-related accidents, the most common prevention is to have all appliances grounded.

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共同的願景：讓我們共同推動安全、健康、綠色、永續的台科大校園。

環安室計畫定期發行一份優質的電子報，這是小的開始，我們將嘗試營造一個傳遞訊息的窗口，以及意見溝通的平台。透過電子報的發行，除了可以讓全體師生明瞭有關環境保護、與實驗室安全衛生各項最新的法規、資訊、與服務，我們也期盼從各位讀者獲得更多學校在環境保護與實驗室安全衛生改進的回饋。現階段我們工作重點是積極建立校園環境保護與安全衛生得整體管理架構，我們將引進教育部鼓勵推廣的「職業安全衛生管理體系 OSHMS」，透過文件化與各教學單位共同落實相關工作，為推動安全、健康、綠色、永續的台科大校園努力。



圖:校園一隅

Our common future: A safe, healthy, green, and sustainable campus.

The Office of Environment, Safety and Hygiene (OESH) plans to publish newsletter routinely and this is our first issue. It is to create a window for updates on regulation, information and services related to environmental protection and laboratory safety and hygiene. We solicit and welcome any suggestions or critical comments for improvement on laboratory safety and hygiene, as well as environmental issues. At present, we plan to establish a framework "Occupational Safety and Health Management Systems" (OSHMS) as provided by the Ministry of Education for an integrated and a more effective management of related issues in our campus. We definitely need your support. Be kindly reminded to make it first priority for you to work safely in the laboratory, to dispose of laboratory wastes properly, and to obtain necessary knowledge on chemicals and equipment that you use. Let us work together to make our campus safer, healthier, greener and more sustainable.



實驗室安衛意外事件報導 1- 102/7/8 化工系實驗室火災

Laboratory accident #1 – Fire, Department of Chemical Engineering, July 8, 2013.

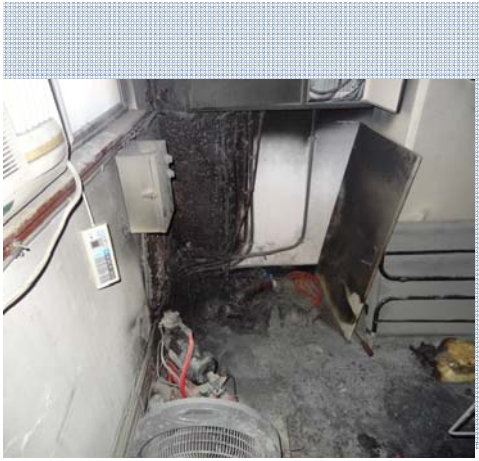


圖 1 現場起火點，電源線閃燒焦黑

Figure 1 Laboratory accident #1 – Fire, Department of Chemical Engineering, July 8, 2013.

發生時間：102 年 7 月 8 日上午 9：50

發生地點：化工系 T1 305 實驗室

災害經過：疑似空壓機電源線關係，引燃堆積旁的拖把等雜物導致局部閃燒，其他地方及儀器設備均無燃燒跡象，無人員受傷。

災害預防對策：

1. 電源附近避免堆放雜物。
2. 若離開實驗室時，應注意各項電源確實關閉及是否有實驗中物質易產生熱反應問題，人員請勿任意離開。
3. 實驗室各項機械設備應依法定期自動檢查，以確保設備維持正常功能運作。

Time: 9:50 am, July 8, 2013.

Location: Laboratory T1- 305, Department of Chemical Engineering.

Accident: Because of a black-out, it is speculated that the on-off control of a compressor was not functioning and became overheated. It ignited some plastic items nearby and caused a fire without much flame but lots of smoke early in the morning. Fire extinguishers came to put out the fire. Fortunately, the highly reactive silane tank did not leak. Otherwise it could be much worse.

Prevention measures:

- (1) No flammable or ignitable items near any power source.
- (2) Make sure all electric appliances in the laboratory are turned off before you leave. Stay in the laboratory if some reactive chemicals or exothermic reactions are involved in experiments..
- (3) Regular check-up of all mechanical equipments are required.

實驗室安衛意外事件報導 2- 102/9/9 從事實驗操作作業發生硫酸液噴濺灼傷災害

Laboratory accident report #2- Sulfuric acid spill and burn on September 9, 2013

發生時間: 102 年 9 月 9 日

發生地點: 材料系 T1306 實驗室

災害發生經過: 材料系陳 00 君不慎將硫酸液體打翻，濺到腿部和臉部。

災害預防對策：

1. 遇到災害時，立即沖淋，可使用水槽旁的洗眼器或直接開水龍頭大量沖洗後送醫。
2. 實驗中應配戴安全眼鏡，且穿著長褲及包頭鞋，避免噴濺意外發生。

Time: September 9, 2013

Location: Laboratory T1-306, Department of Materials Science and Engineering.

Accident: A graduate student, Mr. Chen accidentally spilled sulfuric acid, a strong acid, splashed his legs and face.

Prevention measures:

- (1) When splashed by acid or base, immediately shower and rinse yourself using the eyewash next to the sink, emergency shower on nearby corridor, or directly use tap water. Go for medical check-up afterwards in hospital.
- (2) Always wear safety goggles, shoes and lab coat.

實驗室安衛意外事件報導 3- 102/9/17 從事實驗操作作業發生觸電災害

Laboratory accident #3- Electric shock - Department of Chemical Engineering, September 17, 2013

發生時間：102 年 9 月 17 日

發生地點：化工系 T2-105 實驗室

災害經過：化工所林 00 君於 15:40 在 T2-105 實驗室不慎碰觸高壓變壓器，造成右手肘灼傷，於 16:20 由林 00 君指導教授請同實驗室學生送往汀洲路三軍總醫院急診室就醫。

災害預防對策：

1. 平時應經常做電氣設備的維護及檢查，電氣設備若短期內不再使用，應將電源切離。
2. 預防靜電事故發生，最常見靜電防治為接地。
3. 實驗室人員接受電器安全教育，認識各種電源電壓(單相 AC110V、220V 和三相 AC220V、380V)、電源容量、插座規格等。

Time: September 17, 2013

Location: Laboratory T2-105, Department of Chemical Engineering.

Accident: A graduate student, Mr. Lin accidentally touched the high-voltage transformer on the floor at 15:40 in the laboratory, and caused burns on right elbow. He was sent to the hospital for treatment.

Prevention measures:

- (1) Pull out the plug if equipments or instruments are not in use. Regular check-up and maintenance is required as well.
- (2) The most common method to prevent electric shock is to have all appliances grounded.
- (3) Graduate students involved in experiments should be aware of various power supply voltages (single-phase AC110V, 220V and three-phase AC220V, 380V), power capacity, and sockets specifications.

圖 2 護目鏡型防護眼鏡 (Goggle)



化工系實驗室查核

環安室在本學期開始一個新工作計畫，至各系所進行實驗室環境安全衛生查核。首先，我們於 102 年 10 月 31 日配合化工系定期之實驗室檢查，邀請了台北勞檢處鄭進順科長協助輔導本校如何進行實地檢查工作。當日進行十分順利，也很高興鄭科長與我們分享檢查實務的經驗，讓化工系林昇佃教授、邱宗亨助教及本室成員我們受益良多。希望未來計畫進行時，藉由每次的檢查，可以逐步改善本校的實驗場所環境安全衛生管理實務。

To ensure laboratory safety and hygiene, the Office of Environment, Safety and Hygiene (OESH) will start a new project on regular safety and hygiene inspection for all laboratories this semester. The project consists of routine self-check-up by graduate students and professors, as well as joint inspection with staff of our office. Faults and potential risks will be recorded as reference for improvement. During the routine laboratory inspection of the Department of Chemical Engineering on October 31, we are glad to invite Director Zhen of the Taipei Labor Inspection Office as our advisor for comprehensive examination on chemical storage, hood, ventilation, and emergency response equipments laboratory by laboratory. We appreciate the assistance of Dr. Lin S.D. and Mr. Chiu C.H. and we are planning to work with other departments for similar laboratory inspection.



圖 3 與鄭進順科長至化工系實驗室輔導檢查
Figures 3 Director Zhen inspected laboratories in the Department of Chemical Engineering.

環安委員會會議記錄訊息

環境保護暨安全衛生委員會是為加強落實本校各單位環境安全衛生，依法設立的委員會，目前已於 11 月 7 日召開會議，並針對四個提案進行討論，提案題目及議決如以下說明：

1. 本校將持續推動「職業安全衛生管理體系 OSHMS」。
2. 建立實驗室危害風險評估及訂定定期巡查機制。
3. 毒性化學物質管理委員會委員名單及開會頻率修訂為與環安委員會成員相同。
4. 空氣品質自主管理場所除依法將圖書館列入外，亦將學生餐廳與會議室納入自主管理。
5. 其他詳細會議記錄請見[環安室網頁](#)。

The Environment, Safety and Hygiene Committee (ESHC) convened on November 7 and resolved on the following four proposals:

- (1) To adopt the "Occupational Safety and Health Management System" (OSHMS) as the framework for related tasks.
- (2) To establish regular inspection plan for control of laboratory hazard risk.
- (3) To establish "Toxic Chemical Substances Management Committee" (TCSMC) whose membership and frequency of meetings are identical to the ESHC .
- (4) In response to new regulation, the OESH is to assess indoor air quality of library, student canteens, auditoriums and seminar large rooms and come up with management plan.
- (5) For detailed information, please visit our web site: <http://www.ehs.ntust.edu.tw/front/bin/home.phtml> at:



圖 4 環安委員會召開現場

Figures 4 President Liao chaired the meeting of the Environmental Health and Safety Committee (ESHC) on Nov 7 2013.

本室地址: 10607 臺北市大安區基隆路4段43號(國際大樓11F) No.43, Sec. 4, Keelung Rd., Da'an Dist., Taipei City 106, Taiwan (IB-11F)

編輯 Editor: 游潔如 Amanda Yu

TEL : (02) 2730-1232

FAX : (02) 2730-1011

amandayu@mail.ntust.edu.com.tw

發行人 Publisher: 廖慶榮 校長
President Ching-Jong Liao

Tel: (02) 2737-6101

president@mail.ntust.edu.tw

網站:

<http://www.ehs.ntust.edu.tw/front/bin/home.phtml>

安全衛生政策:

1. 遵循環保安全衛生法令，建立規範制度。
2. 強化環保安全衛生管理，降低危害風險。
3. 實施環保安全衛生訓練，提升意識知能。
4. 落實環保安全衛生執行，營造永續校園。

法規最新消息 Regulations News

- ◇ 學生受僱學校從事工作，學校應依法為其辦理參加勞保。資料來源:行政院勞工委員會 2013/11/6
- ◇ 假日工安事故多 工地管理勿輕忽。資料來源:台北市勞動檢查處 2013/10/28
- ◇ 世界衛生組織將空氣污染物歸類為致癌物質。資料來源:行政院環境保護署。英文連結 [English line2013/10/17](#)
- ◇ [CSB Chairperson Rafael Moure-Eraso Calls for Regulatory Cover2013/8/20](#)

活動預告 Events

- ◇ 預計 11/20 下午 1:30 清運實驗室有害廢棄物 Clearance an collection of lab hazardous waste is scheduled at 1:30 pm Nov. 20.
- ◇ 預計 102 年 12 月清運實驗室廢液 Clearance and collection of liquid lab wastes is scheduled in December 2013.
- ◇ 預計近期召開各系所實驗室環安人員會議 A meeting will be held for all specialists in charge from each departments soon.

休息一下 Funny Time:

它到處都會痛

一個金髮碧眼的女孩告訴她的醫生，她真的很擔心，因為她的身體的每一個地方都會痛。醫生看了說，“告訴我哪裡痛。”女孩摸了摸自己的胳膊，大叫一聲，“哎喲！”然後，她摸了摸她的腿，大叫一聲，“哎喲！”她摸著她的鼻子，叫道，“哎喲！”她看著她的醫生說，“看到了嗎？它到處都會痛！”醫生笑了，說：“不要擔心，這不是嚴重。你食指受傷了。

“ It hurts everywhere

A blonde told her doctor that she was really worried because every part of her body hurt. The doctor looked concerned and said, "Show me where.

"The blonde touched her own arm and screamed, "Ouch!" Then she touched her leg and screamed, "Ouch!" She touched her nose and cried, "Ouch!"

She looked at her doctor and said, "See? It hurts everywhere!" The doctor laughed and said, "Don't worry; it's not serious. You've just got a broken index finger."

