

DCHAS for Students

Safety Culture

Laboratory and chemical safety are primary concerns of our chemical enterprise. Laboratory incidents in the academic community within the recent past have drawn the attention and scrutiny of media, federal investigators, and public prosecutors – and these incidents and their impact have greatly concerned many in academia.

Learn more on what you can do to continuously improve the safety culture of your institutions and the resources DCHAS can offer to support your efforts.

DCHAS website: <http://dchas.org/safety-culture>

C&EN: <http://pubs.acs.org/doi/pdf/10.1021/cen-09024-comment>

Chemical Safety Board

The U.S. Chemical Safety Board has conducted multiple investigations resulting from accidents severely injuring students. “After the Rainbow” and “Experimenting with Danger” review the potential dangers impacting student safety in high school and academic laboratories.

<http://tinyurl.com/CSB-Rainbow>

<http://tinyurl.com/CSB-Academic>

Value of Membership

CHAS & ACS Network - Access to the CHAS safety listserv. This diverse group is comprised of safety professionals (with a wide range of backgrounds and careers) who freely share their experiences, insight, and considerable knowledge with other members. CHAS members and those they mentor benefit greatly from this network as they pursue their safety professions.

ACS Publications - A subscription to the ACS Journal of Chemical Health & Safety, an excellent peer-reviewed journal, published six times per year. It provides relevant articles that apply to your day-to-day issues. Below is a sample list of ACS Publications applicable to Educators.

Regulations and Codes - Frequent information and timely answers to questions regarding regulations and codes are available to ensure compliance in your workplace and avoid costly fines.

Continuing Education and Professional Development - Members receive notification of upcoming regional and national ACS meetings and other laboratory safety events, short courses, and workshops across the U.S. where employees could present papers or posters or attend technical sessions to learn more about their profession.

Discounts for professional workshops that are presented by DCHAS members.

Resources for Students

PUBLICATIONS (<http://tinyurl.com/acs-ccs-links>)

General Safety References

- Handbook of Chemical Health and Safety
- Journal of Chemical Health and Safety (online or hard copy)
- Creating Safety Cultures in Academic Institutions

Classroom Safety (Students)

- Student Laboratory Code of Conduct for Secondary Science
- Safety in Academic Chemistry Laboratories: Volume 1 (Student Edition, college)
- Safety for Introductory Chemistry Students Brochure

Laboratory Safety

- Identifying and Evaluating Hazards in Research Laboratories
- Laboratory Waste Management: A Guidebook
- Less is Better
- Living with the Laboratory Standard
- Guide for Chemical Spill Response Planning in Laboratories

WEBSITES / EMAILS

- ACS Committee on Chemical Safety (<http://www.acs.org/content/acs/en/about/governance/committees/chemicalsafety.html>)
- DCHAS-L email listserv / email exchange (archives: <http://www.ilpi.com/dchas/index.html>)
- Chemical & Engineering News (C&EN) Safety Letters (<http://pubs.acs.org/cen/safety/>)
- The Safety Zone blog by C&EN (<http://cenblog.org/the-safety-zone/>)
- National Academies of Science - Chemical Laboratory Safety and Security: A Guide to Prudent Chemical Management (<http://dels.nas.edu/global/bcst/chemical-management>)

CHAS WORKSHOPS / SEMINARS

<http://www.dchas.org/get-involved/chas-workshops>

Contact DCHAS: <http://dchas.org/contact> (online) or safety@acs.org (email)

DCHAS for Primary and Secondary Educators (K-12)

Safety Culture

Classroom and chemical safety are primary concerns of our chemical enterprise. Classroom incidents in the academic community within the recent past have drawn the attention and scrutiny of media, federal investigators, and public prosecutors – and these incidents and their impact have greatly concerned many in public.

Learn more on what we can do to continuously improve the safety culture of our schools and the resources DCHAS can offer to support these efforts.

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Chemical Safety Board

Washington, DC, December 10, 2013—The U.S. Chemical Safety Board (CSB) today released, “After the Rainbow,” a video safety message focused on potential dangers in high school chemistry laboratories.

<http://tinyurl.com/CSB-Rainbow>

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Resources for Primary and Secondary Educators (K-12)

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General Safety References

- Handbook of Chemical Health and Safety
- Journal of Chemical Health and Safety (online or hard copy)
- Creating Safety Cultures in Academic Institutions

Classroom Safety (Elementary, Middle, and High Schools)

- Safety in the Elementary Science Classroom
- Chemical Safety for Teachers and Their Supervisors
- Reducing Risks to Students and Educators from Hazardous Chemicals in a Secondary School Chemical Inventory
- Student Laboratory Code of Conduct for Secondary Science

Laboratory Safety

- Identifying and Evaluating Hazards in Research Laboratories
- Laboratory Waste Management: A Guidebook
- Less is Better
- Living with the Laboratory Standard
- Guide for Chemical Spill Response Planning in Laboratories

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DCHAS for College and University Educators

Safety Culture

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Learn more on what we can do to continuously improve the safety culture of our institutions and the resources DCHAS can offer to support these efforts.

DCHAS website: <http://dchas.org/safety-culture>

C&EN: <http://pubs.acs.org/doi/pdf/10.1021/cen-09024-comment>

Chemical Safety Board

Washington DC, October 20, 2011 – The U.S. Chemical Safety Board (CSB) today released a new safety video “Experimenting with Danger” on the potential hazards associated with conducting research at chemical laboratories in academic institutions.

<http://tinyurl.com/CSB-Academic>

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Resources for College and University Educators

PUBLICATIONS (<http://tinyurl.com/acs-ccs-links>)

General Safety References

- Handbook of Chemical Health and Safety
- Journal of Chemical Health and Safety (online or hard copy)
- Creating Safety Cultures in Academic Institutions

Classroom Safety (Colleges and Universities)

- Safety in Academic Chemistry Laboratories: Volume 2 - Teacher's Edition (*Volume 1 – Student edition also available*)
- Safety for Introductory Chemistry Students Brochure

Laboratory Safety

- Identifying and Evaluating Hazards in Research Laboratories
- Laboratory Waste Management: A Guidebook
- Less is Better
- Living with the Laboratory Standard
- Guide for Chemical Spill Response Planning in Laboratories
- Nanotechnology Safety Practices and Resources

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DCHAS for Small Businesses and Laboratories

Safety Culture

Industrial and chemical safety are primary concerns of our chemical enterprise. Plant incidents in the chemical processing community within the recent past have drawn the attention and scrutiny of media, federal investigators, and public prosecutors. The lessons learned from these incidents can all be applied to improving the safety culture in all laboratories including small businesses.

Learn more on what we can do to continuously improve the safety culture of our institutions and the resources DCHAS can offer to support these efforts.

DCHAS website: <http://dchas.org/safety-culture>

C&EN: <http://pubs.acs.org/doi/pdf/10.1021/cen-09024-comment>

Chemical Safety Board

The U.S. Chemical Safety Board (CSB) is an independent federal agency charged with investigating chemical accidents and hazards to lead to new safety recommendations to affect positive change. Depending on the nature of your small business and laboratories, the CSB may have insightful videos and recommendations to improve safety and minimize the risk of incident. <http://www.csb.gov/>

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Resources for Small Businesses and Laboratories

PUBLICATIONS (<http://tinyurl.com/acs-ccs-links>)

General Safety References

- Handbook of Chemical Health and Safety
- Journal of Chemical Health and Safety (online or hard copy)
- Creating Safety Cultures in Academic Institutions

Workplace Safety

- Chemical Safety Manual for Small Businesses
- Safety Audit/Inspection Manual

Laboratory Safety

- Identifying and Evaluating Hazards in Research Laboratories
- Laboratory Waste Management: A Guidebook
- Less is Better
- Living with the Laboratory Standard
- Guide for Chemical Spill Response Planning in Laboratories
- Nanotechnology Safety Practices and Resources

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