

Safety: International Chemical Society Approach

Chemical Society Capacity Building Workshop

Brandon S. Chance, MS, CCHO
ACS Division of Chemical Health and Safety Fellow

Director of Environmental Health and Safety
Southern Methodist University
bchance@smu.edu



San Diego, California
August 25-29

Chemical Society Capacity Building Workshop



- Key Goals
 - Bring together chemical society leaders from the Middle East and Africa for presentations on successful society management
 - 2018 workshop focus on Chemical Safety and Security
- Key Topics
 - Ethics, Safety, Security, Society Governance, Publishing, and Communications
- Post-workshop Group Activities
 - Outreach plan to lawmakers on issues of chemical security
 - Establish or revamp a safety and security technical division
 - Create a safety and security guide for distribution
 - Integrate or adapt GCCE into chemical society documents

Background

- Professional
 - Started career as a research chemist
 - Industrial and academic experience
 - Transitioned to a full time role in safety in 2008
- ACS Involvement
 - Division of Chemical Health and Safety member since 2008
 - Alternate Councilor
 - Symposium Organizer
 - Presenter
 - Author
 - Named a DCHAS Fellow in 2018
 - Liaison to the Committee on International Activities



CH&S
CONNECTING CHEMISTRY
AND SAFETY

Attendees



IRAQ



LIBYA



MALAYSIA



SOMALIA

Institutions and Societies

University of Benghazi

Al-Nahrain University (Iraq)

University of Baghdad

University of Kufa (Iraq)

Ataturk University

Tikrit University (Iraq)

Zamzam Foundation

Somali Chemical Society

Universiti Sains Malaysia

Universiti Teknologi Malaysia

International Medical University
(Malaysia)

Institut Kimia Malaysia

Safety Challenges

- Culture of Safety is nonexistent, even in everyday life
- Accessibility of engineering controls and personal protective equipment
- Infrastructure
- Funding challenges
- Prioritization of resources

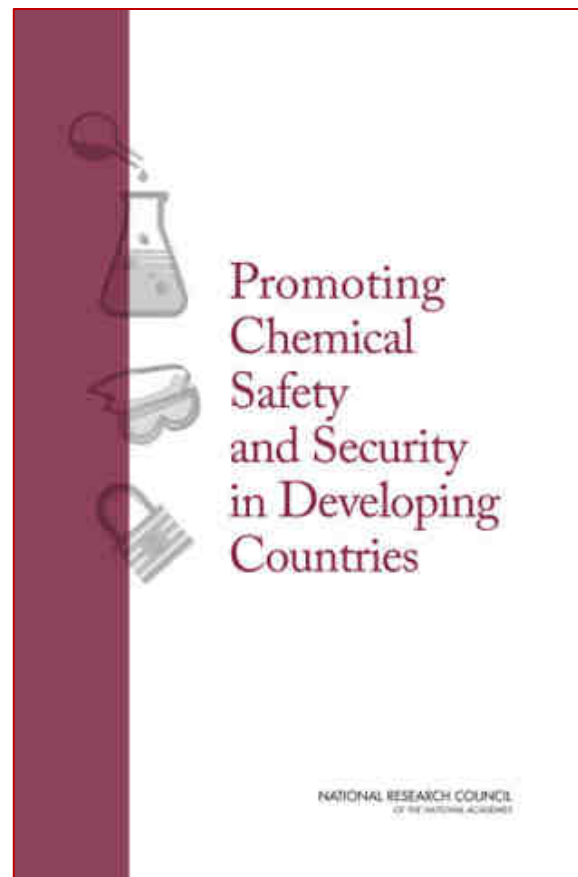
Barriers and Needs

Barriers

- Financial limitations
- Climate constraints
- Cultural challenges

Needs

- Institutional safety policy and rules
- Institutional implementation strategies or plans
- General safety awareness and training
- Reporting and compliance processes
- Waste disposal systems
- External help and support



Goals for a Safety Division

DCHAS Mission

“The ACS Division of Chemical Health and Safety provides authoritative technical resources and mentorship in chemical health and safety for all.”

DCHAS Vision

“Improving people’s lives through the power of best chemical health and safety practices”

Workshop Agenda



- ACS Technical Division Oversight
- DCHAS History, Mission and Vision
- Membership (Officers, Committees, Liaisons, etc.)
- Administrative Manual Development
- Promoting a Division
- Programming, Workshops, and Activities
- Communications and Publications
- Financials
- Travel
- Awards and Fellow

FOUR INTERACTIVE ACTIVITIES

32 Total Divisions in ACS

Class III Divisions: more than 3500 Members

Division of Analytical Chemistry
Division of Biological Chemistry
Division of Chemical Education
Division of Environmental Chemistry
Division of Inorganic Chemistry
Division of Medicinal Chemistry
Division of Organic Chemistry
Division of Physical Chemistry
Division of Polymeric Materials: Science & Engineering
Division of Polymer Chemistry

Class II Divisions: 2000-3499 Members

Division of Agricultural & Food Chemistry
Division of Biochemical Technology
Division of Catalysis Science and Technology
Division of Cellulose & Renewable Materials
Division of Colloid & Surface Chemistry
Division of Computers in Chemistry
Division of Energy and Fuels
Division of Industrial & Engineering Chemistry
Rubber Division

Class I Divisions: less than 2000 Members

Division of Agrochemicals	Division of Geochemistry
Division of Business Development & Management	Division of the History of Chemistry
Division of Carbohydrate Chemistry	Division of Nuclear Chemistry & Technology
Division of Chemistry & the Law	Division of Professional Relations
Division of Chemical Health & Safety	Division of Small Chemical Businesses
Division of Chemical Information	Division of Chemical Toxicology

ACTIVITY ONE

- Group together
- Think about 5-10 core divisions to get your society off the ground
 - why did you choose these divisions
 - Are there cross-divisional opportunities?
- They may be different than ACS divisions
- Share with the group, especially unique divisions

Division of Chemical Health and Safety (DCHAS) – Part 1

- History
 - Livingston, Seaborg, Fawcett, Kingsley, Young, etc.
 - Formation of DCHAS
- Mission and Vision
 - Fundamentals
 - Why are they important
- Membership
 - Officers and their Duties
 - Committees
 - Liaisons
- Activity Two



Activity Two

- Design a roster of necessary officers for your technical divisions
- Design a roster of committees for your technical divisions
- Share with the class and choose one of your committees and talk about why it is important

Division of Chemical Health and Safety (DCHAS) – Part 2



- Administrative Manual Development
 - Bylaws
 - Issuances
- Promoting a Division
 - Branding, Tagline
- Programming a Division

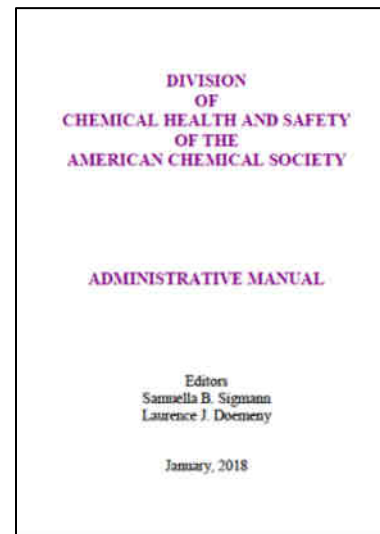


Figure 2 Logo Number-2



Promoting a Division

- VOLUNTEERS!
 - Without them, you have no division
 - MUST be active
 - Variety of experience levels is important
 - Fresh faces and youth
- MEMBERSHIP
 - Value
 - Uniqueness
 - Opportunities
 - Networking
 - Knowledge

Activities

- Programming
- Workshops and Professional Development
- Socials
- Technical Trainings

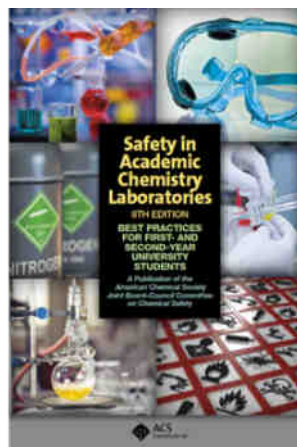
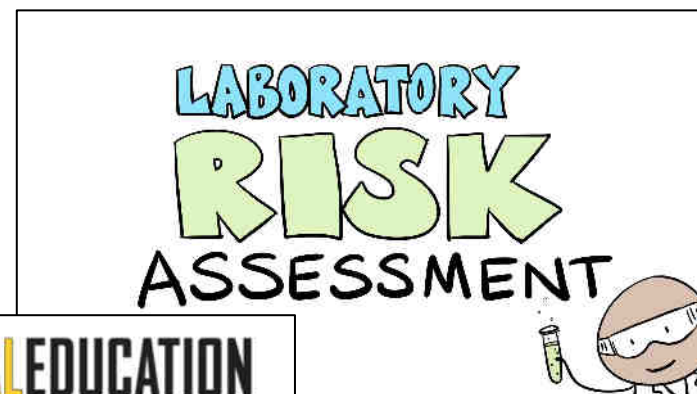


Activity Three

- Select a division from exercise 1
 - Envision a logo
 - Create a tagline
 - What should be part of the mission and vision statement?
- Develop two ideas for workshops – how will they benefit members?
 - Develop a half day of programming
 - What are some potential Symposium Topics
- What are some other activities to bring in members and promote your technical division

Division of Chemical Health and Safety – Part 3

- Sharing Information
- Financials
- Travel
- Awards and Fellows
- Activity Four




Social Media

- Facebook
 - Iraq – 17,000,000
 - Libya – 3,500,000
 - Somalia – 1,100,000
 - Malaysia – 22,000,000
- Twitter
- Instagram

CHES ACS Division of Chemical Health and Safety (DCHAS) ***
October 9 at 7:00 AM · 🌐


Creating a Lab Safety Culture for Industrial Chemists, Educators, and Grad Students

How can you develop your safety skills and support a safe lab to work in everyday whether you are in industry or academia? Register now for this free workshop on Thursday, October 11, 2018 at 2-3 pm ET!
<https://www.acs.org/.../professional-dev.../safety-culture.html...>




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👍 Like 💬 Comment ➦ Share

 Write a comment... 😊 📷 📧 📌

CHES ACS Division of Chemical Health and Safety (DCHAS) ***
October 9 at 12:36 AM · 🌐

<https://newyork.cbslocal.com/.../05/girls-burned-in-the-bronx/>



NEWYORK.CBSLOCAL.COM

2 Girls Burned During Chemistry Experiment At High School In The Bronx Save

Activity Four

- Where are your opportunities for sharing information?
 - Is there a specific opportunity that you can think of?
 - How can you use social media?
 - How can the youth in your society engage? (social media, website building, videos)
- Where do you have opportunities for income?
- What awards might you offer to your members?

Results

- Various workshops from attendees
- Most are based on Department of State's Chemical Security Program (CSP)
- Very active national societies



ACS Iraq Chapter

- Various Workshops
 - Lab Accident Reviews
 - SDS and GHS
 - Nanomaterial Safety

- Very active group







Workshop

Chemical Safety and Ethical Handling of Chemicals

That held at College of Education for Pure Science- Ibn Al-Haytham/ University of Baghdad

23 December 2018
9.00- 10.30 am







Chemical Security and Safety Capacity Building Program
December 19, 2018
"Science and Education for Sustainable Development"

Speakers

- * **Ahmed Al-Hussin** 
- * **Widad Al-dahhan** 
- * **Emad Yousif** 



S SAFETY
D DATA
S SHEETS



ACS Malaysia

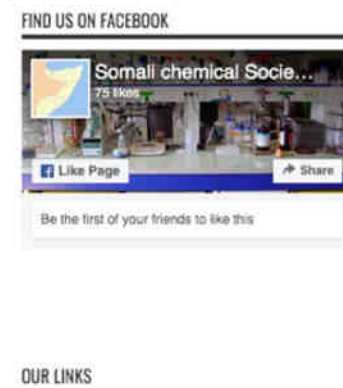
- Various Workshops
 - Sponsorship from US State Dept.
 - Topics include
 - Risk Assessments
 - Inventory management
 - Transportation
- Robust Media Presence



Somali Chemical Society (SCS)



- Safety and Security Awareness
 - Best practices in safety and security
 - Targeted to both students and lawmakers
- Goal to reduce risk and promote SCS
- Secondary School Workshops
- Webinars and Online sessions in near future



Questions?



Additional Topics

- Training needs continue to come up
 - Awareness level for all
 - Deeper dive for students and researchers
- Spill kit development
- PPE
 - Especially for traditional dress