

**DESIGN INSTITUTE FOR EMERGENCY RELIEF SYSTEMS**  
**of the American Institute of Chemical Engineers**

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## **Become A Member of DIERS**

Participation in the Design Institute for Emergency Relief Systems (DIERS) is recommended for all professionals involved in designing Emergency Relief Systems (ERS), especially for reactive systems involving two-phase flow. The design of these systems can be some of the most challenging work an engineer can encounter. Membership provides an opportunity to learn basic as well as advanced proven ERS design methodology. As a member, you also interact with world-class ERS designers, consultants, and valve manufacturers in the field. Attendance at meetings gives everyone exposure to excellent resources, up-to-date information on the latest techniques and research, and a wealth of practical experience. Join and share your knowledge and experiences at the semi-annual meetings with other members.

## **Membership Benefits**

### **1. Semi-Annual Meetings**

Join us for DIERS three-day meetings in Spring and Fall (one virtual one in person) and learn what you need to know to size emergency pressure relief devices for runaway chemical reactions and two-phase vapor-liquid flows. Events feature ERS experts presenting case studies, presentations, and current regulations, and include networking sessions. Professional Development Credits for attendance at DIERS meetings are available upon request. NOTE: Attendance is open only to dues paying AIChE DIERS members.

### **2. AIChE / DIERS Emergency Relief System Design Courses**

AIChE / DIERS BASIC and ADVANCED Courses are conducted by highly qualified DIERS members throughout the year. Consult the AIChE or DIERS website to find the dates and venues.

### **3. CCPS Guidelines Book**

The 2<sup>nd</sup> Edition (April 2017) of the “Guidelines for Pressure Relief and Effluent Handling Systems” has been published by CCPS, AIChE, and DIERS. Go to [www.aiche.org/ccps](http://www.aiche.org/ccps). Click

on "Publications" and then "Books". Scroll down the page to find the "Guidelines for Pressure Relief and Effluent Handling" image (green text on white, grey, and black background) and then click on the book. This should have the following URL:

<https://www.aiche.org/ccps/resources/publications/books/guidelines-pressure-relief-and-effluent-handling-systems-2nd-edition>.

Scroll down the page and click on "GET THIS BOOK". The page with the purchase details will open.

<https://www.wiley.com/en-us/Guidelines+for+Pressure+Relief+and+Effluent+Handling+Systems%2C+2nd+Edition-p-9780470767733>

Available in both print and as an e-book, each comes with a 35% discount for AIChE members. Contact AIChE Customer Service at (800) 242-4363 within the U.S., or (203)-702-7660 outside the U.S. for the discount code to apply during purchase.

Software having estimated development costs of approximately \$3MM is included with both the print and e-book versions. This includes the legacy CCFLOW and TPHEM programs and well as the new SuperChems™ for DIERS Lite program, which contains a large physical property data base. The software can be used for vapor, liquid or two-phase flows and can be downloaded for use with WINDOWS XP, 7, 8, 8.1, 10, and 11 operating systems configured as 32- or 64-bit systems.

**Warning: Purchase of the book from vendors other than Wiley could result in getting the 1<sup>st</sup> edition or not getting the software access code.**

**BOOK Errata:** Send an email to [fisherhg@charter.net](mailto:fisherhg@charter.net) with specific issues and replacement text, if possible.

#### **4. SuperChems™ for DIERS**

SuperChems™ for DIERS is an advanced digital simulation software tool for pressure relief design and is provided by ioMosaic Corporation to AIChE for license to individuals and corporations. The software is available for a one-time license acquisition fee that includes up to five users and after that, there is an annual maintenance fee. New technology updates are provided on a periodic basis. *Training for this version of SuperChems is now available.* Contact the DIERS Chair for information on the program and how to license the software.

#### **5. DIERS / Company Suggested or Sponsored Research Projects**

A company attending an AIChE Loss Preventions meeting admitted that they did not necessarily have the staff or expertise to size emergency pressure relief systems for runaway reactions and/or two-phase vapor-liquid flow. The representative asked if others in the audience might also have concerns about these topics. Several were interested and an invitation was issued to attend a future meeting at which the topics could be discussed. Thus, DIERS was born after several years of careful planning and fundraising. Are there any topics of concern

that could become a DIERS self-help or DIERS- / company-funded project? If so, contact the Chair with your issues, ideas, or thoughts for a possible DIERS project. NOTE: The DIERS Bylaws, posted on the [www.aiche.org/diers](http://www.aiche.org/diers) website, contain procedures for formulating, managing, and funding possible projects.

## Membership FAQs

### 1. **Member information out of date?**

Access to the DIERS Membership list or the DIERS Meeting Minutes is restricted to the Name and Email Address used when you received your DIERS website password. Working from Home? Changed Jobs? Retired? Failed to list your place of employment? Listed your home phone number as your primary contact? Members should call AIChE customer service at 1-800-242-4363 and request changes to both their AIChE and DIERS contact information as necessary. Registration information from one year to the following year is just carried over and NOT necessarily updated unless specifically requested. DIERS cannot request changes to AIChE or DIERS member information maintained by AIChE.

### 2. **No Access to DIERS Website?**

New dues-paying members should have received an email with a temporary password and instructions as how to register on the website for access to the meeting minutes and presentations. Send an email ([ruth.l.tx@iomosaic.com](mailto:ruth.l.tx@iomosaic.com)), or call Lisa Ruth at 713-490-5220 if you have not received the registration instructions or have website access problems.

I look forward to greeting (and meeting) all our members during the next DIERS Meeting.

Harold G. Fisher  
Chair, DIERS