

March 12, 2024

Dear DIERS Member,

The Design Institute for Emergency Relief Systems (DIERS) was formed in 1976 as an industry consortium to develop technologies for the design of emergency relief systems, particularly for overpressure events involving two-phase vapor-liquid flow and runaway chemical reactions. In 1985 the DIERS consortium became the DIERS Users Group with corporate membership and then in 2020 became DIERS, a Technical Entity within the AIChE, with individual membership.

As DIERS evolved from an industry consortium with corporate sponsorship and a sponsor funded project to a Technical Entity with individual membership and volunteer led projects, the nature and the scope of projects also evolved. Volunteer champions (project leaders) and project committee members are selected to define and execute projects based on their interests and skills. Several of the successfully completed and on-going projects are:

- CCPS Book “Guidelines for Pressure Relief and Effluent Handling Systems” 2nd Edition Book and Errata
- Control of Hazards Associated with Reactive Chemicals
- Round-Robin Reaction Calorimetry
- Fire Exposure of Low Volatility Liquids
- Impact of Weather Conditions on the Protection of Low Pressure and Atmospheric Storage Tanks
- Best Practices for Fire Relief Sizing
- Non-Equilibrium Flow Considerations
- Pressure Relief Valve Stability
- Thermal Stability of Low Volatile Liquids
- Guidelines for Flame Arresters
- Training Module for SuperChems™ for DIERS Lite
- Kinetic Reference Reactions for Calorimetry
- Chemical Reactivity Exchange Datasheet
- DIERS Assessment of ISO-4126-10
- Guideline for Battery Safety

DIERS has also successfully hosted several technical subgroups of specific member interests such as mathematical modeling, high viscosity venting, vessel hydrodynamics, round-robin testing, round-robin design, external fire considerations, and risk mitigation considerations. Current active subgroups are:

- External Fire Considerations
- Round-Robin Testing
- Battery Safety Considerations

The technical projects and technical subgroups are pillars of DIERS strategy to achieve the vision “*to make the world a safer place by being the leader in the design of safe and effective over-pressure protection, emergency relief and effluent handling systems.*” The DIERS Operating Committee requests your assistance to achieve the vision.

The Operating Committee is encouraging members to participate in a self-directed initiative to form and conduct operations of a Technical Project Committee to manage technical project selection and provide a focal point for the technical subgroups. The vision for the proposed Technical Project Committee members is to define, implement and manage work processes to:

- Develop an overall multi-year technical program
- Define the project selection and approval process
- Define the priorities for technical project selection
- Select specific projects aligned with the DIERS mission
- Define and approve the scope of selected projects
- Recruit membership for chartered project committees
- Review and report the status of individual project committees

An example project work flow process and projects selection criteria from the CCPS are attached below. Note the intent it is to develop a work process and selection criteria that reflect the priorities of the DIERS organization rather than to emulate the CCPS version.

The success of DIERS has been made possible through the efforts of members like you. Please provide the Operating Committee with any feedback regarding the proposals shared and with your desires to participate in any of the DIERS projects, the Technical Project Committee, or a Technical Subgroup. Contact information for email responses are Harold Fisher (fisherhg@charter.net), Passa Piland (passa.piland@bayer.com), or Greg Hendrickson (GregHendrickson1954@gmail.com).

In addition, note that a breakout session has been added to the upcoming 2024 DIERS Virtual Spring Meeting April 24 – 26, 2024 to discuss and develop the proposed Technical Project Committee. For more information regarding the meeting please visit [2024 DIERS Virtual Spring Meeting | AIChE](#).

We look forward to hearing from you.

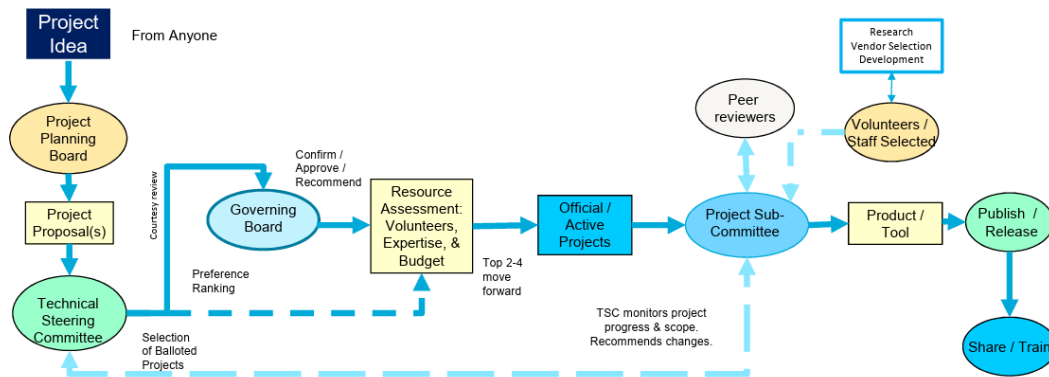
With regards,

Harold Fisher, DIERS Chair

Passa Piland, DIERS Project Chair

Greg Hendrickson, DIERS Secretary

SIMPLIFIED PROJECT FLOW



THE GLOBAL COMMUNITY COMMITTED TO PROCESS SAFETY

Projects Criteria and Characteristics



- Significant....** Provide an important contribution to process safety
- Unique.....** Not already covered by any existing resources
- Well-defined...** Reasonably specific objectives and scope
- Feasible.....** Attainable with available CCPS resources
- Timely.....** Needed or will be useful when project is completed
- Valuable.....** Considered to provide value to Sponsors and Stakeholders as well as having a favorable cost/revenue potential to CCPS
- Alignment.....** Align with Vision and Mission (including Vision 2020)

THE GLOBAL COMMUNITY COMMITTED TO PROCESS SAFETY