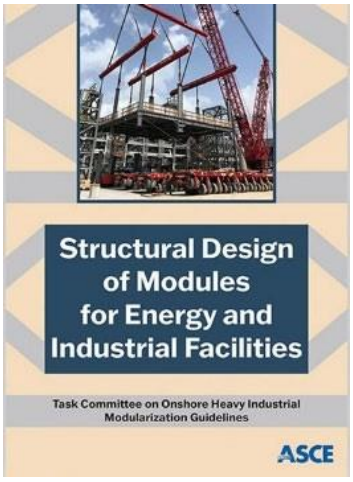
Workshop on Structural Design of Modules for Energy and Industrial Facilities

Overview

Location:	Houston DowCenter (Tentative)
Room/Date:	**Room:** G107 (Ground Floor Conference Room) **Date:** May 2026 **Time:** 1pm – 5pm CDT **** Snacks/Drinks will be provided***
Instructors:	1. Silky Wong (Dow) 2. TBD 3. TBD 4. TBD
Facilitator:	Silky Wong (Dow) ***ASCE Energy Division Committee Chair: Task Committee on Wind-Induced Forces***
Participants:	ASCE members and non-members (35 max)
Objectives:	***This is part 2 of a 2-part workshop, sponsored by ASCE's Energy Division, one of the nine technical groups under the ASCE Center for Technical Advancement.*** Participants will deepen their understanding of modular construction by revisiting foundational concepts and exploring the importance of module weight management across project phases. They will gain insights into structural design principles specific to modular components, including analysis techniques and common design challenges. The workshop will also introduce key considerations for module yard fabrication and assembly, such as subassemblies, fabrication tolerances, and dimensional control. Participants will learn logistics and transportation considerations for modules, and review case studies that highlight the impact of dimensional control on site installation. Through interactive discussions and practical examples, attendees will be equipped to apply these concepts in future modularization projects.  **Link to Book:** https://ascelibrary.org/doi/book/10.1061/9780784485767

Event Agenda

Time (CDT)	Topic	Facilitator(s)
12:00 pm – 1:00 pm	**Check-in: Get visitor badges**	All
1:00 – 1:15 pm	**Welcome and Introduction** • Welcome remarks • Introduction to the workshop objectives • Overview of the agenda	TBD
1:15 – 1:30 pm	**Fundamentals of Modular Design** • Recap of Modular Design Part 1	Silky W.
1:30 pm – 2:00 pm	**Module Weight Management** • Requirements for Various Project Phases • General Procedures/Specifications • Lessons learned from previous modularization projects	Silky W.
2:00 – 3:00 pm	**Detailed Engineering: Structural Modeling and Analysis** • Overview of structural analysis techniques for modular components • Design examples for loading and load combination applications	TBD
3:00 – 3:15 pm	**Coffee Break (15 minutes)**	All
3:15 – 3:45 pm	**Module Yard Fabrication and Assembly** • Module assembly and erection • Structure Subassemblies • Fabrication tolerances • Dimensional control during fabrication • Fabrication interfaces	TBD

Time (CDT)	Topic	Facilitator(s)
3:45 – 4:30 pm	**Logistics and Transportation Considerations** • Land transportation, such as SPMT, truck • Water transportation • Lifting and setting	TBD
4:30 – 4:45 pm	**Sire Installation Case Histories** • Case studies on dimension control in modular projects	TBD
4:45 – 5:00 pm	**Q&A and Closing Remarks** • Open floor for questions and answers • Summary of key takeaways • Closing remarks and feedback collection	TBD