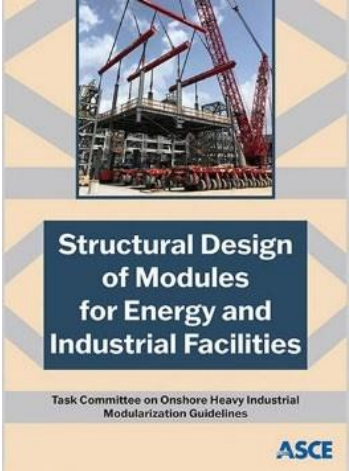


Overview

Location:	Houston DowCenter
Room/Date:	Room: G107 (Ground Floor Conference Room) Date: August 13, 2025 Time: 1pm – 5pm CDT <i>* Snacks/Drinks will be provided</i>
Instructors:	<ol style="list-style-type: none"> 1. Silky Wong (Dow) 2. David Kerins (Exxon – retired) 3. Felipe Mejia (Fluor) 4. Gordon Binker (LW Survey) 5. Greg Brown (ENERCON)
Facilitator:	Silky Wong (Dow) ASCE Energy Division Committee Chair: Task Committee on Wind-Induced Forces
Participants:	ASCE members and non-members (35 max)
Objectives:	<p><i>This is part 1 of a 2-part workshop, sponsored by ASCE's Energy Division, one of the nine technical groups under the ASCE Center for Technical Advancement.</i></p> <p>Participants will gain a comprehensive understanding of modular construction, including its benefits, challenges, and key principles, as well as early design development concepts and front-end engineering design (FEED) for module design. They will explore structural design principles, load considerations, and techniques for ensuring accurate dimensions during fabrication. The workshop will also equip attendees with practical skills to address common design challenges and apply dimension control techniques in modular projects.</p> <div style="text-align: center;">  </div> <p>Link to Book: https://ascelibrary.org/doi/book/10.1061/9780784485767</p>

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 <ul style="list-style-type: none"> Welcome remarks Introduction to the workshop objectives Overview of the agenda 	Silky W.
1:15 – 1:30 pm	Fundamentals of Modular Design <ul style="list-style-type: none"> Introduction to modular construction Benefits and challenges of modular design in energy and industrial facilities Key principles and considerations in modular design 	David K.
1:30 pm – 2:00 pm	Philosophy and Early Design Development Concepts <ul style="list-style-type: none"> Comprehensive design philosophy for onshore heavy industrial modules Lessons learned from previous modularization projects Applicable references and industrial design standards Objectives of onshore modularization: shifting work hoursoffsite Modularization design workshops and guidelines for stakeholders Impact of transportation and logistics on module dimensions and weight 	Greg B.
2:00 – 2:30 pm	Front-End Engineering Design (FEED) <ul style="list-style-type: none"> Overview of FEED for module design Key factors driving or challenging modularization approaches Module layout, transportation, design criteria, and constructability Weight management, dimensional control, and risk management Value engineering and cost-saving opportunities Passive fire protection (PFP) considerations for different project needs 	Greg B.
2:30 – 2:45 pm	Coffee Break (15 minutes)	All

Time (CDT)	Topic	Facilitator(s)
2:45 – 3:45 pm	Detailed Engineering: Design Loads and Load Combinations <ul style="list-style-type: none"> • Load considerations for modular structures • Design criteria and specifications (DNV and PIP) for onshore modules 	Felipe M.
3:45 – 4:45 pm	Dimensional Control <ul style="list-style-type: none"> • Importance of dimension control in modular projects • Techniques for ensuring accurate dimensions during fabrication • Tools and technologies for dimension control • Dimension control in modular projects 	Gordon B.
4:45 – 5:00 pm	Q&A and Closing Remarks <ul style="list-style-type: none"> • Open floor for questions and answers • Summary of key takeaways • Closing remarks and feedback collection 	Silky W.