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April Seminar

BALANCE AND HARMONY

Date:	April 6, 2016
Venue:	Theatre C300, UBC Robson Square, 800 Robson Street, Vancouver
Time:	Refreshments 6:00pm, Presentation 6:30pm
Presenter:	David Mar, SE President, Mar Structural Design (California)
Cost:	Free for SEABC Members. \$75 + tax for non-members Registration is required: www.seabc.ca/mar

The stars are aligning in the universe of structural engineering. Peer-reviewed, performance-based, high-rise designs are becoming commonplace, proving in the market that sophisticated (non-prescriptive) engineering adds value. Incremental Dynamic Analysis, via FEMA P695, sets the stage to understand collapse risk, offering the opportunity to cull deficient structural systems and introduce better systems. Finally, the FEMA P58 loss-estimating methodology connects the circuit between design (the world of engineers) and resilience (the world of our clients).

This talk presents a system-based approach for design of new buildings to achieve explicit performance objectives. Desired mechanisms (in balance and harmony) are created by proportioning relationships. The outcome is an efficient and powerful prescriptive means for performance-based design.



David Mar, SE
President, [Mar Structural Design](#) (California)

David has a wealth of experience designing innovative structural systems. He strives to create holistic designs that optimize the architectural program and structural performance while controlling construction costs. To these ends, his designs are often inventive and technically ingenious, at the forefront of high-performance seismic and sustainable design.

David received his undergraduate and master's degrees from UC Berkeley.