



BASE Line

May/June 2005

Steven M. Baldrige, P.E., S.E.

Baldrige & Associates is recognized for its focus on collaborating to optimize a wide range of building types and development projects. We particularly excel in high-rise design and have become renowned for high-rise buildings that showcase the versatility and creativity of our engineers.

Todd P. Dwight, S.E.

Frank K. Humay, Ph.D., S.E.

Kylie K. Yamatsuka, S.E.

Evan A. Mizue, S.E.

Daesubb Oh, P.E.

Rebecca Lee, P.E.

Daniel R. Popp

Tracy M. Duke

Sandra M. Yonkers

Fe O. Rodillas

Woo Sung Chang

Aubrey S. Renteria

Gary M. Park, Jr.

John D. Chesak, P.E.

■ The **Council on Tall Buildings and Urban Habitat** has invited Steven Baldrige to speak about *Structural System Optimization: A Sustainable Design Strategy* at this year's 7th World Conference. Themed "Renewing the Urban Landscape," the conference will take place in New York City from October 16-19, 2005.

■ This past April, Steven Baldrige presented the technical paper, *Multi-hazard Approach to Prevent Progressive Collapse*, at the **Structural Engineering Institute's** Structures Congress "Metropolis & Beyond" in New York City. He highlighted economical methods to strengthen multi-story buildings for anti-terrorism / force protection criteria.

■ **Trump International Hawaii** – BASE has been selected as the structural engineer for this planned residential tower. In keeping with the Trump name, this project promises to be Waikiki and Hawaii's landmark residential property.

■ **Moana Vista Tower** – Designed to bring mid-range residential units to market quickly structural optimization and collaboration with the design / assist team will be critical to the project's success.

■ **Hokolua Tower** – Through optimal column layout, a thin slab system was validated. This allowed a 47-story configuration, confirmed the economical viability of the project, and ultimately assisted our client in selling the project. The current design maintains much of the original structural layout validating the economy created by our work.

■ **Value-Engineering:** Structural optimization to provide the required, or an enhanced, level of performance at reduced cost and/or shorter construction duration. Some examples on high rise buildings include:

▷ *909 Kapiolani* – A 225-unit, 33-story residential project. Typical tower slab, shearwalls and foundations were studied. Through this work, BASE assisted the team in finding over \$ 2,000,000 in savings.

▷ *Watermark* – A 38-story residential project. Suggested options to optimize the shearwall layout. This reduced encroachment of walls into unit layouts and created additional sellable space.

"There is nothing more rewarding for a Structural Engineer then to ride an elevator up over 500 feet in the air and relax with friends in an apartment of a high-rise building that you designed."

