Evolving Technology for Design and Construction of More Efficient Concrete Structures By Hanns U. Baumann, S.E. President, Baumann Research and Development.



require.



Currently in development is a Hollow Concrete Floor Slab which saves energy and reduces building mass. Based upon a similar installation at the John Muir Dormitory at UCSD, the energy used to operate the HVAC system will be approximately 30% less than buildings with conventional HVAC systems.



The construction of California's tallest reinforced concrete structure, a sixty-story building in San Francisco, and the world's tallest precast building in a region of highest seismicity marks a milestone in the twenty year development of a new type of confinement reinforcement for concrete structures in seismic regions.

Recent developments in manufacturing methods and Quality Assurance processes has made it possible to produce one-piece WRG that improve ductile performance and constructability, speeds construction, and allows for costeffective design and construction of more efficient concrete structures.