



## Energy Harvesting Systems

### *DR. ALFRED A YEE*



Dr. Alfred A. Yee (deceased) was President of Yee Precast Design Group Ltd. in Honolulu, Hawaii and Director of Precast Design Consultants Pte. Ltd. in Singapore. He obtained his Bachelor of Science degree (Civil Engineering) from Rose-Hulman Institute of Technology and his Master of Engineering degree (Structures) from Yale University. He organized one of the early precast/prestressed concrete mass production facilities in the United States and has since developed innovative structural concepts, devices and construction techniques widely used in prestressed/precast concrete construction of high-rise building structures, bridges and marine concrete vessels.

In recognition of his work in concrete technology and proven unique concepts for both land and sea structures, particularly in the field of precast design and construction, the Rose-Hulman Institute of Technology conferred upon him an Honorary Doctor of Engineering degree in 1976.

That same year, Dr. Yee was made a member of the prestigious National Academy of Engineering (NAE) (USA). In 1995, the State of Hawaii Legislature presented Dr. Yee with an Official Proclamation honoring him for the invention of the NMB Splice Sleeve and recognizing the successful role this connection device played in reinforcing Precast Concrete Structures to withstand the devastating earthquake in Kobe, Japan, that same year.

Dr. Yee was the author of numerous technical articles and has delivered lectures to many international professional organizations and universities on the subject of precast and prestressed concrete. His articles published in the Prestressed and Precast Institute (PCI) received awards for outstanding technical papers in all three categories: (a) Excellence in Research and Design (b) Construction Methodology and (c) Latest Technology and State-of-the-Art. Dr. Yee had served on the Board of Directors of the PCI in the past and for a number of years on the Connection Details and Seismic Design committees. He also served on the American Concrete Institute (ACI) Committee 357, Concrete and Marine Offshore Structures and has designed and supervised construction of ocean-going prestressed concrete barges, as well as prestressed concrete ocean platforms for oil exploration and chemical processing plants.

In 1997, Dr. Yee was awarded the PCI Medal of Honor for his extraordinary contributions to the precast/prestressed concrete construction industry, especially for his innovative design of precast/prestressed concrete high rise buildings along the Pacific Rim which have survived some of the highest intensity earthquakes in the world. In 2004, Dr. Yee was named a Titan of the Precast/Prestressed Concrete Industry in recognition of his outstanding contributions to the Industry; for prominence in industry innovation and change; for positive leadership in industry-altering development and expansion; and for advancing and accelerating the growth of the North American Precast and Prestressed concrete industry.

In 2007, Dr. Yee was appointed to the International Panel of Experts by the Building and Construction Authority (BCA) of Singapore to assist in the effort to review and strengthen its regulatory framework. He also has served as Honorary Structural Consultant to the Singapore Housing and Development Board for seven consecutive three-year terms to launch a massive precast concrete housing program which provides housing for approximately 85% of the Singapore population with outstanding success.

In 2009, the Hawaii Council of Engineering Societies honored Dr. Yee with the HCES Lifetime Achievement Award in recognition of his significant contributions to the development of engineering in the State of Hawaii and noteworthy impact on the local engineering community.

Internationally, Dr. Yee's firms were involved in the design and construction monitoring of low and high-rise building projects including commercial, residential, industrial, and special purpose structures such as precast concrete long span aircraft hangars and numerous ocean-going concrete barges and platforms.

#### **Yee Precast Design Group Ltd.**

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