

Gypsum Stacking Technology – 2019 Update

by

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In 1977, Dr. Anwar Wissa, former President of Ardaman & Associates, Inc., presented the first technical paper at the AIChE Clearwater conference, summarizing the science, technology and engineering associated with designing a gypsum stack. Prior to that time, gypsum stacks were developed based primarily on the experience of individual stack operators employing a trial and error approach. Dr. Wissa advanced the state-of-the-art and placed the design of these facilities in the hands of trained and experienced engineers.

Ardaman has worked on nearly 80 gypsum stacks worldwide, and participated in developing the rules that govern design and management of phosphogypsum stacks in Florida along with the rules promulgated by the federal EPA. The experience gained from these efforts have culminated in updated design and management technology for gypsum stacks. This paper presents the current design methodologies and technology to update the 1977 groundbreaking paper.

The authors and all of Dr. Fuleihan's colleagues would like to publish this paper in honor and memory of his internationally recognized contributions to the science and engineering of gypsum stacks.