

## **Bio for Patrick Hayes**

Pat is Principal Civil Engineer with Glendale Water & Power, a municipally-owned water and electric utility, in Glendale, California where he manages the Water Engineering department. GWP serves both water and power to over 200,000 customers. He has over 30 years of professional experience including both private and public sector positions for water and electric utilities. Pat has worked on water and wastewater projects all over the United States, as well as in Canada, Australia, New Zealand, Singapore and Hong Kong.

Pat is a graduate of the University of California at Berkeley with a bachelor of science degree in Civil Engineering and a minor in Economics. He is a registered professional engineer in California, Arizona and Hawaii. Pat is the AMI Water Project Manager for GWP which involved the installation of 34,000 Badger meters, Itron endpoints, Itron Enterprise Edition meter data management system, and implementation. Full deployment for water and electric meters was completed in September, 2011.