

## *PMBus™ 1.3 Seminar Hosted by Bob White at APEC 2016*

*Sunday, March 20, 2016 from 2:30 – 6:30PM in Long Beach, CA.*

*January 8, 2016*

Since being introduced in 2005 the PMBus™ power management protocol has been widely adopted and is the accepted standard for digital power management. Bob White's three hour seminar will provide a detailed look at two major features introduced in the recent Revision 1.3, Zone Protocols and the AVSBus, as well as a review on the basics of the PMBus protocol.

The seminar is divided into two parts with a half hour break in between. The first half of the seminar reviews the basics of the 2-wire SMBus including the electrical interface and how data is transferred from one device to another. PMBus specific features such as the CONTROL signal and the use of SMBALERT# interrupt signal will be reviewed. A summary of the PMBus command language and numerical formats will be presented, including the new floating point format introduced in Revision 1.3. Other areas covered are setting and adjusting the output voltage, fault management, and status reporting.

The second half of the seminar takes a deeper look at the two major PMBus additions introduced in Revision 1.3. The Zone Protocols offer important new tools for managing the larger and more complex power systems in today's equipment. Zone commands enable the simultaneous sending of commands and polling of multiple devices. The AVSBus is an all new protocol with an SPI-like interface that can operate at speeds up to 50 MHz. With a compact set of commands and fixed 32 bit frame, the AVSBus allows devices such as microprocessors, ASICs and FPGAs to quickly command changes to their operating voltage, improving performance and saving energy.

*About Bob White.* Bob is widely recognized as an expert in the design of power systems architecture and digital power management, and is the principal author of the PMBus™ specifications. He is a well-known speaker and author who has presented many papers and seminars at myriad industry conferences. He is a Fellow of the IEEE and is well known for his key role in developing and supporting the IEEE Applied Power Electronics Conference (APEC).

*About APEC.* The Premier Event in Applied Power Electronics™, APEC focuses on the practical and applied aspects of the power electronics business. It is not just a designer's conference, as APEC has something of interest for anyone involved in power electronics: including designers, salespersons, marketers, management, the press and financial community.

*About PMBus.* The Power Management Bus (PMBus) is an open-standard digital power management protocol: simple, standard, flexible, extensible, and easy to program for. The PMBus command language enables communication between components of a power system: CPUs, power supplies, power converters, and more. For more information, please go to the PMBus.org website and download an [Introduction to PMBus](#).

*About SMIF.* System Management Interface Forum is an industry Special Interest Group (SIG) composed of 35+ member companies and adopters who work together to develop, implement and promote standardized communications protocols. The PMBus name and logo are trademarks of SMIF, Inc. Commercial use of the PMBus name and logo is restricted to PMBus adopters. Refer to the PMBus.org website for additional details.