

# SENIOR FELLOWS



**Paul Westbrook**

Sustainable Development Manager

Texas Instruments

ECPA Pillar of Concentration:  
Clean Energy

Languages: English

## FELLOW BIO: Paul Westbrook

### International Experience:

Mr. Westbrook has experience working with a number of different teams in a variety of cultures and climates. He led the sustainable design efforts that resulted in the first ever LEED Certified building in the Philippines. He worked on the design of manufacturing facilities or performed energy and resource efficiency assessments of major manufacturing facilities in Mexico, Malaysia, Philippines, Japan, and Taiwan. He also collaborates via phone and web conference with team members from China, India, and Germany, and has traveled to several Caribbean countries, Canada, France, Switzerland, and Italy.

### Areas of Expertise:

Mr. Westbrook is a LEED Accredited Professional, recognized as a leader and speaker in efficiency and whole-system integrated design across the spectrum from residential projects to large industrial facilities. His primary focus is on energy and water efficiency. Most of his experience is in heating, ventilation, and air-conditioning, but Mr. Westbrook is well versed in cooling plants, water systems, lighting, controls, emissions, materials, and landscaping. Part of his credibility comes from the fact that he doesn't just speak about these topics—he has lived them, both professionally and personally.

Mr. Westbrook has over 28 years of design and operational experience with large, complex manufacturing facilities. He led the effort at Texas Instruments to design and build the first sustainable, LEED Gold Certified semiconductor manufacturing facility (“fab”) in the world. The 1.1 million square foot facility reduced energy use by 38%, reduced water use by 40%, and cut emissions by 50% by using waste heat recovery instead of boilers, and the TI team was able to achieve these savings in a facility that cost 30% less to build than the previous fab. He collaborated with the Rocky Mountain Institute on the project design. Mr. Westbrook has also worked with the International SEMATECH Manufacturing Initiative teams on industry-wide efficiency improvements and on green design standards. A colleague at ISMI dubbed Mr. Westbrook “the father of the green fab.”

In his personal life, Mr. Westbrook designed his own passive/active solar house using integrated design principles; this allowed him to win the 1996 NAHB Energy Value Housing Award for Innovative Design. In 2006, he installed a 2.4kW Skystream wind turbine on the property. The house maintains a native landscape, which combined with the interior water saving features, resulted in Mr. Westbrook being named the 2009 North Texas Municipal Water District Water Genius.

Mr. Westbrook holds a B.S. Degree in Mechanical Engineering. He is a Senior Member of the Technical Staff at Texas Instruments in Dallas, Texas, where he has worked since 1983.

For more information contact  
Elizabeth Lopez:  
elopez@partners.net  
(202) 637-6201

The Senior ECPA Fellows Program is funded by the US Department of State and fellowships are coordinated in collaboration with US Embassies throughout Latin America and the Caribbean.

