

*For government, design and building professionals*

# Sustainable Sites Series 2009

*This third of a series of workshops will explore the reasons why sustainable and green development is emerging as an industry standard. Limited resources, aging and at-capacity infrastructure, regional growth, environmental and climate change concerns will all be addressed.*

## **Site Development and the Heat Island Effect**

**April 23, 2009**

**8-9:30 a.m.**

**Kirkland City Hall, Council Chambers, 123-5<sup>th</sup> Avenue**

**Who should attend:** Government employees involved in building and development (public works, planning, permitting and inspection) and building industry professionals (developers, engineers, architects, and other trade professionals)

**Moderator:** David Barnes, City of Kirkland Planner and Green Building Team

### **Panelists:**

**Matt Miller**, Associated Earth Sciences Inc.

**David Hilgers**, TRIAD & Associates, Landscape Architect, LEED AP

**Stacey Rush**, City of Kirkland, Public Works, LEED AP

**Deb Powers**, City of Kirkland, Urban Forester

### **April 23: Site Development and the Heat Island Effect**

In this session our panel will look at strategies for protecting sites by limiting site disturbance, using permeable surfaces and restoring previously developed or graded sites. The panel will also address considerations that can be made during siting to minimize the disruption of existing ecosystems and reduce the size of the building footprint. Although siting for passive solar design is not addressed in the LEED siting checklist, it will be introduced here. Green roofs will be presented both from contributing to maximizing open space as well as reducing heat island effects. The benefits of wetlands, ponds and pedestrian hardscapes will also be presented. Strategies for reducing heat island effect including discussions of shading techniques, use of highly reflective paving materials, open grid paving and underground parking will also be presented.

### **Future Session**

One additional session, listed below, will cover in depth sustainable considerations in site development: Stormwater Management (May 28, 2009)

*If you are interested in hosting a future series, please contact David Barnes, City of Kirkland, Planning & Community Development Department at 425-587-3250 or [dbarnes@ci.kirkland.wa.us](mailto:dbarnes@ci.kirkland.wa.us). (APA credits pending. Workshop is free.)*