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Detroit Radiant: What is Infrared Heating



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Infrared is a type of energy. How does infrared heat work? It heats people, floors, walls and other surfaces directly, without heating the air around them first. The result? Infrared heating provides an instant warming, similar to when the sun emerges from clouds on a chilly day.

Another important factor to consider in evaluating infrared applications is that the amount of energy that is absorbed, reflected or transmitted varies with the wavelength of the infrared energy and with different materials and surfaces. [More >>>](#)

Visualizing heat flow in bamboo could help design more energy-efficient and fire-safe buildings



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Modified natural materials will be an essential component of a sustainable future, but first a detailed understanding of their properties is needed. The way heat flows across bamboo cell walls has been mapped using advanced scanning thermal microscopy, providing a new understanding of how variations in thermal conductivity are linked to the bamboo's elegant structure. The findings will guide the development of more energy-efficient and fire-safe buildings, made from natural materials, in the future. [More >>>](#)

System provides cooling with no electricity



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Imagine a device that can sit outside under blazing sunlight on a clear day, and without using any power cool things down by more than 23 degrees Fahrenheit (13 degrees Celsius). It almost sounds like magic, but a new system can do exactly that.

The device, which has no moving parts, works by a process called radiative cooling. It blocks incoming sunlight to keep from heating it up, and at the same time efficiently radiates infrared light -- which is essentially heat -- that passes straight out into the sky and into space, cooling the device significantly below the ambient air temperature. [More >>>](#)

Building the wall: A construction timeline update

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