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EE TIMES GERMANY EE TIMES KOREA	Breeze).			
EF_TIMES_TAIWAN FF_TIMES_UK Web_Sites • CommsDesign	The Purdue researchers nanosized the effect and combined it with microfluidic channels with embedded, megahertz-sequenced electrodes suitable for pumping heat-laden air molecules literally through the core of a chip and out the other side.			
<u>GaAsNET.com</u> iApplianceWeb.com	chip and out the	other side.		
Microwave Engineering Edesign Deepchip.com Design & Reuse Embedded.com Elektronik i Norden Planet Analog	"What we have now is a laboratory demonstration that we can switch at the right frequency so that the ion cloud is constantly moving forward," Schlitz said. "As the ions move forward, they make repeated collisions with neutral molecules, producing the breeze."			
Semiconductor. Business News. The Work Circuit TWC on Campus ELECTRONICS GROUP SITES	The Purdue researchers used traditional photolithographic fabrication for the sequenced electrodes that propel the breeze along, but they created the ions by depositing closely spaced carbon nanotubes on a quartz substrate. In future devices the team plans to use a thin diamond film in place of the nanotubes.			
<u>ChipCenter</u> EBN <u>EBN China</u> <u>Electronics Express</u> <u>NetSeminar Services</u> <u>OuestLink</u>	"The grain boundaries in the diamond film provide the same kind of opportunity for electron emission and ion generation as carbon nanotubes," Garimella said. "The entire thing could sit on, and be integrated into, a chip that is 10 x 10 millimeters."			
	Funding for the Purdue University research project came from the National Science Foundation, Semiconductor Research Corp. and the Purdue Research Foundation.			
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