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SMALL TIMES ANNOUNCES BEST OF
SMALL TECH AWARDS FOR 2005*Small Times*

Nov. 2, 2005 - Small Times unveiled its fourth annual Best of Small Tech Awards Wednesday afternoon at the NanoCommerce & SEMI NanoForum trade show in Chicago. The awards honor companies and individuals in micro and nanotechnology that have made particularly noteworthy achievements during the previous 12 months.

Individual winners and finalists were named in the categories of product, company, business leader, researcher, innovator and advocate. In addition, a lifetime achievement award winner was named.

The awards were moderated by the Small Times editorial staff and 27 distinguished panelists from across industry and academia. The winners will be featured in a 16-page cover story in the upcoming November/December 2005 issue of Small Times magazine. Preview copies of the awards package were distributed at the conference.

Product

The 2005 Best of Small Tech award in the product category was given to the Affymetrix GeneChip Mapping 100K Set. Affymetrix's high-density DNA microarrays have proven themselves a key component in the genetic researcher's toolkit. Such arrays have been used for investigating the genetic underpinnings of autism, sudden infant death syndrome, obesity and other conditions. The finalists in the product category are Intematix's White Lightning phosphors, Labcyte's Echo 550, Nanomix's Nanoelectronic H2 sensor and NanoOpto's Subwave Optical Isolator.

Company

The 2005 Best of Small Tech award in the company category was given to E Ink, a maker of bi-stable displays using "digital ink". The Cambridge, Mass., company has successfully ushered the technology out of the lab and into real-world applications in recent years, most

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Photo by John Wondrasek

The 2005 Best of Small Tech awards were unveiled on Wednesday in Chicago.



Photo by John Wondrasek

Kurt Petersen, chief executive officer of SiTime Corp., delivered remarks after receiving the lifetime achievement award.

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notably during the last 12 month with a series of persuasive prototypes made in conjunction with industry partners – a clock, a watch, a point-of-sale display – all of which testify that the company is poised to go prime time.

The finalists in the company category are AdvanceTEC, a Richmond, Va., clean room and lab designer and builder; Nanosolar, a Palo Alto, Calif., maker of solar cells using roll-to-roll processing; pSivida, a Perth, Australia bionanotechnology company; and Zyvex, a Richardson, Texas nanotech firm.

Business Leader

The 2005 Best of Small Tech award in the business leader category was given to Kevin Matthews, chief executive officer of U.K.-based firm Oxonica. Matthews shepherded the nanomaterials firm through a 12-month period in which a major bus operator began using its fuel additive, a European retailer unveiled its sunscreen products and petroleum companies embraced its diesel additive – not to mention a July IPO on London's Alternative Investment market.

The finalists in the business leader category are Keith Blakely, chief executive officer of New York-based nanomaterials firm NanoDynamics; David Fyfe, chairman and CEO of U.K.-based Cambridge Display Technology, a developer of OLED technology; Greg Galvin, president and CEO of Kionix, an Ithaca, N.Y.-based maker of MEMS chips; and Frank Guidone, the CEO of Measurement Specialties, a maker of MEMS and consumer products.

Researcher

The 2005 Best of Small Tech award in the researcher category was given to Philip Kuekes of Hewlett-Packard. The nanoelectronics researcher and his colleagues demonstrated that his nanowire crossbar latch architecture could function as a transistor and they proved in a paper published by the Journal of Applied Physics that it could store a bit of memory or perform a logic function. They also described how such a system could self-recover from inevitable damage done to the wires during manufacturing by using the type of error-correcting codes commonly used today in digital cellular telephony.

The finalists in the researcher category are James Baker Jr., a nanobiotechnology researcher at the University of Michigan; Robert Langer, an engineering professor at Massachusetts Institute of Technology; Samuel Stupp, director of Northwestern University's Institute for BioNanotechnology in Medicine; and Xiang Zhang, an associate professor of mechanical engineering and director of the Center for Scalable and Integrated Nano Manufacturing at the University of California, Berkeley.

Innovator

The 2005 Best of Small Tech award in the innovator category was given to Peter Dobson, academic director of Oxford University Begbroke Science Park and a professor of engineering. In 1999, Dobson created his first spinout, Nanox, to make nanoparticles for a wide variety of applications. Today the company is known as Oxonica and fills order for everything from cosmetics to transportation. In 2000, he also founded Oxford Biosensors, a maker of diagnostic

healthcare devices. Today, his research focuses on materials fabrication in the 2 to 200 nanometer scale.

The finalists in the innovator category are Rashid Bashir, a bioMEMS and nanotechnology researcher at Purdue University; Angela Belcher, a professor in the materials science department at Massachusetts Institute of Technology; Stephen Quake, a bioengineering professor at Stanford University; and Sally Ramsey, chief chemist of Ecology Coatings.

Advocate

The 2005 Best of Small Tech award in the advocate category was given to philanthropist Fred Kavli. The founder of sensor and component maker Kavlico turned his own good fortune into an incentive for others. His Kavli Foundation this year announced it would award a \$1 million nanoscience prize every two years, beginning in 2008. It will provide similar awards in neuroscience and astrophysics. Kavli has also endowed numerous university chairs in MEMS and nanotechnology and provided generous funding to nanotechnology institutes at California Institute of Technology, Cornell University and Delft University of Technology.

The finalists in the advocate category are Kees Eijkel, president of the Micro and Nanotechnology Commercialization Education Foundation and technical commercial director of the University of Twente's MESA+ Institute for Nanotechnology in the Netherlands; Mauro Ferrari, a professor of oncology and biomedical engineering and associate vice president of health science technology and commercialization at Ohio State University; Richard Jones, a physics professor at the University of Sheffield in the U.K.; and Jackie Ying, executive director of the Institute of Bioengineering and Nanotechnology in Singapore.

Lifetime Achievement

The 2005 Best of Small Tech award for lifetime achievement was given to Kurt Petersen. Currently the chief executive officer of SiTime Corp., Petersen previously helped launch Transensory Devices (bought by IC Sensors in the mi-80s), NovaSensor (bought in 1990 and subsequently sold again to a division of GE) and Cepheid, which went public in 2000. Petersen's 1982 paper, "Silicon as a Mechanical Material" remains a seminal publication in the field and continues to inspire engineers and entrepreneurs alike. Most recently, Cepheid's diagnostic devices have been used by the U.S. Postal Service to search for anthrax in the mail and by health officials in New Orleans to test Hurricane Katrina's floodwaters.

- *David Forman*

