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News Release

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INTEL ANNOUNCES WINNER OF UNIVERSITY NOTEBOOK CHALLENGE

Pedal Power the Healthy Solution for the Energy-Efficient Laptop of the Future

MUNICH, Germany, Nov., 28, 2007 — The global scale of current environmental concerns have put the responsible use of the Earth's natural resources firmly on the agenda of today's political and industrial plans. Incontrovertible evidence points to an energy and environmental crisis unless we improve the way in which we utilize available energy sources. Beyond innovative technology, Intel Corporation has an active history in terms of introducing generations of energy-efficient technology offering incremental performance per watt – culminating with its latest and most advanced development - Intel® Core™ 2 Duo processor technology. Manufacturing processes involving practices such as reusing and recycling water and waste products further contribute toward an environmentally responsible attitude¹.

In the spirit of encouraging innovation toward energy-efficient technology Intel in April launched a challenge to European universities to design a device capable of powering laptops by using renewable, sustainable energy sources. Intel today awarded the winners of the Intel University Competition On Renewable Energy (CORE), the culmination of 7 months of creative endeavors from the participating teams.

The jury was composed of Nir Tessler, professor at the Israel Institute of Technology in Haifa, Eszter Morvay from the international IT analyst house IDC, and Ofri Wechsler, Intel

¹ Examples of some of the ways Intel made an impact: saved over 9 billion gallons of fresh water through our water reuse and recycling practices, recycled more than 70 percent of our chemical and solid wastes, reduced our global warming gas emissions the equivalent of removing 50,000 cars from the road

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Fellow. They judged entries from universities from Belgium, Germany, Ireland, Italy, Netherlands and Spain. Each entry was judged according to several criteria, from ecological value to ingenuity of design to commercial viability.

The winning solution, by the Spanish team (Polytechnic of Madrid), is based on a pedal machine powered by human energy. The cycling action produces energy which is turned into the electricity necessary to power the laptop by a power electronics converter. The solution was chosen as it demonstrates the team's systematic approach to deal with all aspects of the challenge – from its ease of implementation to the innovative quality of its electronic components – with special features to allow for a realistic usage model. The Spanish device is particularly user-friendly as it enables the user to adopt a flexible, customizable rhythm including any required breaks. Original features include the power electronic converter specifically designed to minimize charging time and keep energy flow at a constant level.

The runners-up, the Polytechnic of Milan (Italy) and Delft's University of Technology (Netherlands), will also be recognized on the respective merits of their solutions. The Italian team devised an ingenious way to utilize hydrogen fuel cell to power a laptop, which is particularly noteworthy by its duration and for being environmentally clean. Hydrogen is a renewable and sustainable source of energy, the most common element in the universe and although it is not present on earth in its elemental form it can be obtained from water through electrolysis. This presents an additional advantage in terms of utilizing time-sensitive energy (such as energy obtained through solar panels) and converting it back into electrical energy through the hydrogen-producing electrolysis process.

Delft University's design is also innovative and consists mainly of a rocking-motion pedal mechanism. An integrated design approach, drawing knowledge from a range of disciplines, was used to optimize the design.

The winning team, from the Polytechnic of Madrid (Spain), receives €10,000 as funding to support scientific research. The two runners-up receive a top-of-the-line laptop.

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