



THE MILLENNIUM
TECHNOLOGY
PRIZE

Finland's tribute to life-enhancing technological innovation

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March 2009

Dear Sir/Madam,

The nomination period for the 2010 **Millennium Technology Prize** has now begun. You are receiving this letter as we believe that candidates for the Millennium Technology Prize, the world's largest technology award, may be working for you or be associated with your organisation.

The Millennium Technology Prize is a biannual award of one million euros given to a groundbreaking innovation that promotes people's quality of life, contributes toward the realization of humane values and encourages sustainable development. Candidates for the 2010 Millennium Technology Prize are sought across the world and in all fields of technology. Nominations are welcomed from universities, academies, research institutes and industrial organisations. Citizens of all nations are eligible. The Millennium Technology Prize is awarded by the **Technology Academy Foundation**, an independent fund established together by the Finnish industry and the state of Finland.

The nominations should be sent to the Technology Academy Foundation preferably by email by 1st of October 2009.

We hope you will kindly distribute the enclosed information concerning the Millennium Technology Prize in your organisation to appropriate persons.

Enclosed you find the Nomination Guide with short description of instructions for the nomination of candidates. More detailed information and nomination guidelines are to be found in the Foundation's website: www.millenniumprize.fi.

With best regards,
Technology Academy Foundation

Dr. Tech. Aino Maija Haarla
President and CEO

Further information:

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Enclosure The Millennium Technology Prize 2010 – Nomination Guide

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NOMINATION GUIDE

2004



Tim Berners-Lee

2006



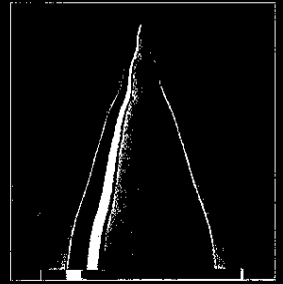
Shuji Nakamura

2008



Robert Langer

2010



RECEIVED
GREETINGS



THE WORLD needs scientific and technological breakthroughs. With air pollution affecting the lives of millions of people and the need for clean water becoming a major issue for even more, we cannot rely on yesterday's solutions. While the justifiable ambition of a better life for billions requires new energy sources, we cannot allow this to destroy the environment we depend on. Our 'developed' societies are also full of problems requiring intelligent solutions.

The only way forward is to recognize and help accelerate the deployment of new, effective technology. Innovation is crucial to the future of mankind.

The Millennium Technology Prize was created to inspire and recognize innovations that provide answers to the challenges of our time and promote people's quality of life. At the level of one million euros, the Prize ranks as one of the world's most prestigious individual awards for technological innovation.

Your nomination of worthy candidates for the Prize, based on the guidelines presented in this booklet and detailed on our website, will be both warmly welcome and highly appreciated.

Dr. Stig Gustavson
Chairman
Technology Academy Foundation

INTERNATIONAL SELECTION COMMITTEE

CHAIRMAN

**Prof. Risto Nieminen,**
Finland 🇫🇮

Dr. Nieminen is Professor of Physics at Helsinki University of Technology. He directs COMB, the National Center of Excellence in Computational Nanoscience and the National Graduate School in Materials Physics. His area of research includes condensed-matter and materials physics as well as computational methods.

**Prof. Eva-Mari Aro,**
Finland 🇫🇮

Dr. Aro is Professor in Physiological Botany at University of Turku. Dr. Aro's primary area of research is focused on photosynthesis, solar energy conversion and chloroplast signalling.

**Prof. Mikko Hupa,**
Finland 🇫🇮

Dr. Hupa is Professor and Dean of the Faculty of Technology at the Åbo

Akademi University in Turku. He is Chairman of the National Centre of Excellence in Process Chemistry (PCC) at Åbo Akademi, a cross-disciplinary research centre working with novel processes and products from renewable raw materials.

**Prof. Bengt Kasemo,**
Sweden 🇸🇪

Bengt Kasemo has been Professor of Physics at Chalmers University of Technology, Gothenburg, since 1983. He heads a research group of 20 people active in Surface Science, Nanoscience and Nanotechnology, Catalysis for emission cleaning, and Sustainable Energy Technology.

**Prof. Martti Mäntylä,**
Finland 🇫🇮

Dr. Mäntylä is Professor of Information Technology at the Helsinki University of Technology and is currently participating in preparations for the Aalto University and leading several research projects.

**Prof. Konrad Osterwalder,**
Switzerland 🇨🇭

Prof. Dr. Osterwalder is Rector of the United Nations University and Under-Secretary-General of the United Nations. From 1995 to 2007, he also served as Rector of ETH Zürich, the Swiss Federal Institute of Technology.

**Prof. V.S. Ramamurthy,**
India 🇮🇳

Dr. Ramamurthy is currently Homi Bhabha Chair professor at the Inter-University Accelerator Center in New Delhi. Dr. Ramamurthy is a well known Indian nuclear scientist with several research contributions in the areas of nuclear fission and heavy ion reaction mechanisms.

**Prof. Henry T. Yang,**
U.S.A. 🇺🇸

Dr. Yang is the Chancellor of the University of California, Santa Barbara. His current research is focused on aerospace engineering, bio-inspired smart infrastructure systems, and intelligent manufacturing systems.

SELECTION PROCESS

THE FINALISTS and the Prize Winner are selected by the Board of the Technology Academy Foundation on the basis of recommendations by the International Selection Committee, a distinguished group of experts. The Board's decisions are final and without appeal.

The list of Finalists, all of whom must accept their appearance on the list, will be announced in early spring 2010. In this context all the Finalists, their research and their innovations will be presented to the international media and the general public in their domestic countries. During Millennium Technology Week in Helsinki in June 2010 the winner of the 2010 Millennium Technology prize will be announced, and awards for the Prize Winner and all the Finalists will be presented at a festive award ceremony by the President of the Republic of Finland **Tarja Halonen**.

NOMINATIONS

THE PRIZE can be awarded to a research and development team or to a single individual. It can also be shared between two or three individuals who are shown to have made a critical contribution of essentially equal merit to the success of the innovation.

Any science and engineering academy, university, research institute, industrial enterprise or association may submit a nomination for the Millennium Technology Prize. Self-nominations are not accepted. All qualifying nominations are valid for one selection round.

The nomination period begins March 1st and ends on October 1st 2009. All material must be presented in English and sent preferably by email to the Technology Academy Foundation.

For specific guidelines and enquiries on submitting a nomination, please contact Dr. Tech. **Ainomaija Haarla**, President and CEO of Technology Academy Foundation, Finland: ainomaija.haarla@technologyacademy.fi or ainomaija.haarla@millenniumprize.fi. Please, visit also www.millenniumprize.fi

*Millennium
Technology Prize
Winners*

IN 2004 the Winner was **Sir Tim Berners-Lee** for his invention of the World Wide Web (www).

IN 2006 **Professor Shuji Nakamura** was awarded for his invention of bright-blue LEDs and the blue laser.

IN 2008 the Winner was **Professor Robert Langer** for his inventions in biomaterials for controlled drug release and tissue regeneration. In addition five Laureates (three inventions) were awarded in 2008.

GENERAL PRINCIPLES

THE MILLENNIUM Technology Prize is awarded for a specific groundbreaking innovation in the field of technology. Citizens of all nations are eligible.

The winning innovation must be shown to promote people's quality of life and sustainable development both now and in the future. The Prize is not intended for cumulative accomplishments over a lifetime career.

Significant factors in the evaluation process include the number of people affected by the innovation and the extent of the changes they may experience as a consequence. Technologies that have not yet been applied in practice are not eligible for the award.

At the one million euro level, the Millennium Technology Prize ranks as one of the world's most prestigious awards.

The Millennium Technology Prize is under the patronage of the President of Finland.