



Technological Innovation for the greater good



2008 Award

**“Reducing CO₂ levels in the atmosphere:
our technological challenge!”**

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The Foundation in brief ...

◇ Altran Foundation's Mission

Since it was created in 1996, the Altran Foundation for Innovation has been promoting and encouraging scientific and technological innovation for the greater good in various fields. Altran wants to be socially committed by mobilizing and uniting the Group's strengths around strong values such as **creativity, innovation, independence**, etc.

◇ Sponsoring competence: from innovative ideas to industrial realities

A pioneer in the field of **sponsoring competence**, the Altran Foundation for Innovation offers a unique and in fact innovative grant. It is much more than a conventional scientific award. It provides the winner with **one year** of technological support from top Altran consultants. This support can value up to €1 million. Besides, the laureate is offered a **financial grant of €16.000**.

The technical support offered is tailored to the needs of the specific project and covers **all of Altran's areas of competence**, in terms of **research** and **scientific innovation**: technological development, design, industrialisation, cost optimisation, project management, market studies, marketing, partnership searches, fund raising, communication, multimedia, corporate strategy, ... This is a unique opportunity for candidates to make their ideas concrete and to turn their projects into an industrial reality.

This experience has been widely recognized, as evidenced by the 2006 Award of Admical (a corporate philanthropy association) - Fondation de France, which rewards the originality and durability of the Altran Foundation's actions.

¹ Association pour le Développement du Mécénat Industriel et Commercial

An international competition...

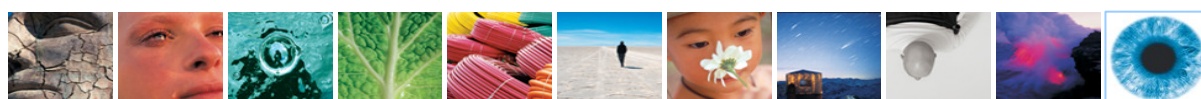
◇ An international scientific Award

The Altran Foundation organizes every year an international scientific competition on a specific theme, rewarding the project that shows the most innovation.

Any innovator from the following sectors is eligible for the Altran Foundation Award: companies, the media, laboratories, cultural centres, educational institutions, public and private organisations, schools and universities, associations, etc. **The call for candidates is international in scope. Any candidate from a European country in which Altran operates** (Austria, Belgium, Czech Republic, France, Germany, Great Britain, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland) **as well as candidates from the United States and Brazil are eligible for the competition.**

◇ An annual theme

The Altran Foundation rewards technological innovations in a different field each year: human history and artefacts, pain, water quality and water access, food quality and safety, improving living conditions in urban areas, developing countries, childhood, energy ...



◇ An international and independent jury

The jury is composed of independent and international experts from various fields related to the yearly theme. It consists of:

- the four **permanent and external** Scientific Board **members**:

Edith Ackermann, Honorary Professor of Developmental Psychology at the University of Aix-Marseille 1 and Visiting Scientist at the MIT, School of Architecture,

Jean Audouze, Research Director at CNRS and President of the Scientific Committee of the European Innovation & Research Exhibition,

Wolf Peter Fehlhammer, President of ECSITE-D and former Director General of the Deutsches Museum in Munich,

Marc Vaincel, PhD in paediatrics and General Administrator of the Foundation for disadvantaged Children of the ONE, in Belgium,

- European experts** chosen for their reputation and skill in the fields encompassed by the theme specific to the year.

Some examples of jury members:

- Vigdís Finnbogadóttir** in 2002 - Former President of Iceland, first woman in the world to be elected Head of State,
- Jean Luc Dehaene** in 2005 – former Prime Minister of Belgium,
- Philippe BUSQUIN** in 2004 – former European Research Commissioner,
- Corinne Lepage** in 2006 - French Minister of the Environment from 1995 to 1997 and Chairman of CAP 21 (Citizenship, Action, Participation for the XXIst century),
- Pierre Tambourin** in 2007 - Chief Executive of Genopole, Vice president of the world class competitiveness cluster Medicen Paris Region.

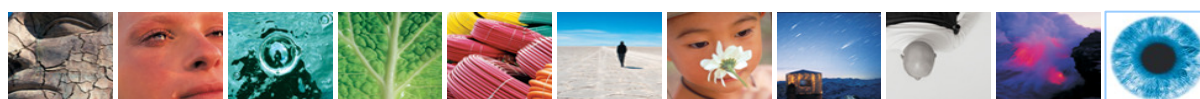
“The Altran Foundation Award has now gained a prestigious reputation in the realm of innovative technologies. As Genopole director and vice President of Medicen, it is important for me to contribute to the development of biotechnology companies, and this initiative by the Altran Foundation can only spur the best talents. This is why I agreed to be the President of the Jury for the 2007 Altran Foundation Award.”

Pierre Tambourin - Altran Foundation for Innovation 2007 Jury President

◇ Project selection criteria

The members of the jury base their decision on several selection criteria.

1. The **response** to the problem posed by the theme, the **general interest** of the project and its **innovative character**. The project innovative character is determined both by its core principle and by the technology used or, if the technology is already well known, by its intended application. Besides, the project must serve the broader good.
2. **The human, technical and financial credibility**. The team will be asked to prove its motivation and its capacity to lead the project to a successful end. The project must also be technically and economically viable (profitability, return on investment, etc.) and must be able to generate jobs.



Involvement and commitment...

◇ Employees' engagement

The Foundation functions thanks to the involvement of motivated and committed men and women. Its actions are successful mainly as a result of the voluntary work done by the Altran teams.

All year long, more than 250 Altran collaborators take part in the different stages of the Foundation Award:

- **Finding** potential candidates, **identifying** project leaders and **communicating** internally and externally on the Award
- **Coaching candidates** – each candidate is offered the opportunity to be supported by an Altran consultant throughout the selection process. This scheme helps to attract worldwide candidates, increasing the Award's notoriety, and improving the quality of applications.
- **Short-listing files** – the first selection of projects is organized internally and aims at selecting the forty best applications.
- **Auditing finalists** – each finalist is audited by an Altran consultant just before the final selection. This audit detects the project's strengths and weaknesses and helps ensure the viability and feasibility of the project.
- **Supporting the Winner** – The winner of the award is offered one year of personalised technological support they use to set their project forth. This support is tailored to the needs of the specific project and covers all of Altran's areas of competence, in terms of research and scientific innovation.

On top of their involvement in the Award at hand, the Altran staff devotes time to constantly promoting the Foundation: organisation of conferences, presentation during seminars, diffusion of the training session « Let's speak about the Foundation », etc.

"I am very proud having participated and helped the development of this extraordinary medical innovation. I think that enabling people to communicate with the world is one of the most beautiful things we can offer."

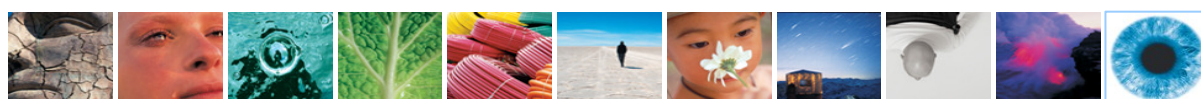
Mark Manasas **Cambridge Consultants Inc – Altran Group**
Project leader BCI (laureate 2005)

◇ Confidentiality

In order to protect all strategic information, jury members and all people taking part in the selection are asked not to disclose any confidential information.

Altran derives no commercial benefit from the projects applying to the Foundation Award.

The Altran Foundation for Innovation hereby forfeits any right and remuneration related to the applicants' projects.



Priceless effects

◇ Technological wealth and unquestionable successes

For more than 10 years now the Altran Foundation for Innovation has been offering the expertise and know-how of Altran, European leader in innovation consulting, for the broader good.

Ten years during which the Altran Foundation for Innovation has helped a wide variety of technological innovations emerge.

Among the laureate projects, here are some examples of reference:

- **Biobasic (2001)** – Development of soil decontamination programme to renovate obsolete industrial sites in urban areas.
- **Diallertest (2003)** – Development of food-allergy detection patch for children that facilitates early diagnosis.
- **Brain Computer Interface (2005)** – This system is a major advance since it enables paralysed people to control a computer through the recording of their brain waves.
- **Maxxun (2006)** - A new solar cells' system based on a luminescent rays concentration to improve solar panels' performance and lower by a half costs of the generated energy.
- **The Artificial Retina (2007)** – an electronic chip which artificially stimulates the neuronal retinal network and restores helpful vision to enable locomotion and reading by blind patients.

These projects emerged thanks to the motivation and involvement of Altran's teams.

◇ The Altran Foundation, a shortcut for development

Laureates all agree that the Foundation Award provides them with considerable financial advantages, crucial time saving and the project's concretisation.

“One year after the Altran Foundation Award, we got financial help from the European Union within a project including seven European partners.”

Viviane Renaudin – 1999 Laureate

“The support was not only on technologies, because it helped us obtain 1.3 million euros from institutional investors.”

Dominique Grégoire – 2000 Laureate

“Being laureate of the Foundation Award provides us with a better reputation, which was essential to earn the 12 million euros necessary to our development.”

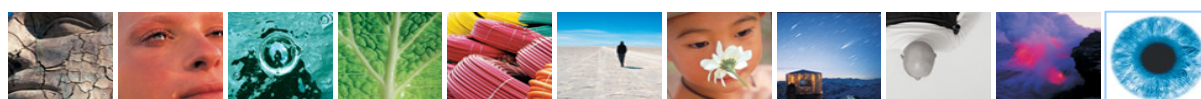
Pierre Henri Benhamou - 2003 Laureate

“The Altran's accompaniment was very precious. Thanks to the consultants' support, it has allowed us to accelerate the BCI technological development significantly. Furthermore, the contribution of new abilities has led to the concrete enforcement of the project”.

Jonathan Wolpaw – 2005 Laureate

“Altran consultants supported our team in a wide range of areas including technology, financing, application development and marketing. This support included advice and actual participation in projects which we highly appreciated. Maxxun BV is progressing rapidly towards a commercial solar system which is partly based on the support from Altran.”

Dr. Kees Bastiaansen, Chief Technology Officer at Maxxun – 2006 Laureate



2008 Award Reducing CO₂ levels in the atmosphere

◇ Context

Today, climate warming is accepted as a major issue by the international community. It is one of the single biggest issues that affects us all, around the world. We have no choice but to try and address it, and address it quickly.

As we know, global warming is caused by rising CO₂ levels in the atmosphere, and many now accept that this increase is due to our own day-to-day activities. During the last century, emissions of green house gases have increased by 50%¹ with the result that their concentration is the highest it has ever been.

Without urgent action, the situation will only continue to worsen. Increasing greenhouse effects and global warming are deeply modifying our earth's climate and ecological balance, which in turn will critically affect our economies and societies. Reducing CO₂ in the atmosphere represents an up-to-date challenge and concerns everyone - company or individual, government or industry – the effect will touch us all.

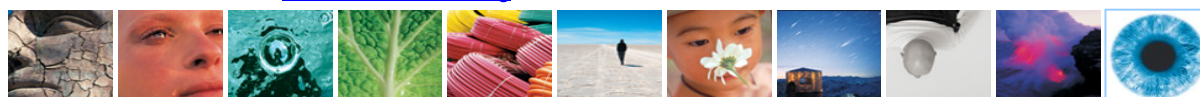
◇ Some figures

1. Emissions of carbon dioxide (CO₂) from human activity have increased from an insignificant level two centuries ago to over **25 billion tons** worldwide today.
US department of Energy
2. CO₂ consumption increases every year. Even if this growth is arrested now, our consumption will rise by **70% between 2000 and 2030**.
IEA - International Energy Agency
3. If nothing is done to fight against greenhouse gases emissions, temperatures are predicted to increase **1.4 to 5.8 degrees (2.52–10.44 °F) by 2100**.
CEA – Atomic Energy Commission
4. CO₂ emissions caused by fossil fuels have accelerated much faster than expected: by **1.1%** per year in the 1990s and **3%** per year between 2000 and 2005.
IPCC Intergovernmental Panel on Climate Change
5. **75%** of man made CO₂ emissions result from the burning of **non-renewable fossil fuels**.
OECD - Organisation for Economic Co-operation and Development

As in previous years, the Altran Foundation is focusing on key issues that have wide ranging effects on everyday lives. The theme for 2008 is:

**“Reducing CO₂ levels in the atmosphere:
our technological challenge!”**

¹ Source CO₂ solidaire : www.co2solidaire.org



◇ **Categories**

The Award is open to international project holders who are working on the 2008 theme. They can come from various fields: Environment, Energy, Transport, Building, Manufacturing Industry, Aeronautics, etc.

We are looking to recognise and reward an innovative technology-related project, that takes into account one of the following issues:

- **Reducing energy consumption**
- **Reducing CO₂ production**
 - Improving energy efficiency through process optimization
 - Using renewable energies
- **Improving CO₂ sequestration technologies – capture and storage**
 - Improving performance and reducing costs of existing techniques
 - Developing new alternative technologies
 - Measuring and quantifying risks and uncertainties
 - Improving safety
- **Recycling**
 - Developing techniques of CO₂ conversion

◇ **The key steps of the Altran Foundation Award are:**

October 1st 07 to April, 7th 08 Award launch	Start of the application and launch of the internal and external raising awareness events.
June 2008 Consultant Week-end	A team of consultants reviews the applications and may pre-select about 40 candidates, then presented to the jury.
September 2008 Jury meeting	The jury meets to select the 6 finalists, who are then asked to present an additional, detailed portfolio of their project.
October 2008 Grand Oral	Each finalist gives an oral presentation to the jury, which then selects the winner at the end of the day.
January 2009 Award Ceremony	Award ceremony of the Altran Foundation for Innovation.

The name of the Award winner will be revealed during the Ceremony of the Altran Foundation for Innovation, where people from the economic, scientific, research and academic world are present.

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