



# Foundation Activities

Report 2007 – 2010



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## Foreword

### An entrepreneurial approach to social responsibility

*Dear reader:*

Bayer has a long history of corporate responsibility. Our products and services are designed to benefit people and improve their quality of life. At the same time, we want to create value through innovation, growth and high earning power. However, our understanding of corporate responsibility goes one step further than this, incorporating social commitment into our sustainability strategy as an integral aspect. Back in 1923, the then Bayer Managing Director Dr. Carl Duisberg established the first Bayer foundation, creating the starting point for numerous and varied activities designed to help people and boost public welfare.

We restructured our foundation activities in 2007, concentrating them on a number of key topics. Since then, our commitment to science and education has been pooled in the overarching structure of the Bayer Science & Education Foundation. The Bayer Cares Foundation focuses on promoting voluntary activities, strengthening innovative, social-medical strategies and supporting reconstruction projects in areas hit by natural disasters.

One of Bayer's top priorities is to make the world a better place to live in. Our foundations want to play their part in this.

Please take a moment to read about the projects initiated and supported by our foundations from 2007 to fall 2010.

I hope you enjoy reading the brochure.



**Werner Wenning**

Chairman of the Board of Management of Bayer AG

## The Bayer Foundations

# Support out of conviction

**It all started with a great idea put forward by a great man. The then Bayer Managing Director Dr. Carl Duisberg set the scene for the company's foundation activities back in 1923. He believed that a long-term commitment to science, education and social concerns represented an important investment in society's future viability and would safeguard the company's economic success in the years ahead. This conviction developed into an expression of corporate social responsibility, to which the Bayer Group has remained committed throughout the decades. The focus of our foundation activities has remained the same since then – to provide support for education, research and social commitment.**

Recognition and support from external sources are frequently required to ensure that innovative strength and potential are used to the greatest possible effect. The latter can take many different forms, including the exceptional input of a scientist, ambitious projects by teachers, special study projects pursued by young people, or aid and consultancy services in the social sector.

Therefore, the focus is on an enduring commitment to issues affecting society and the people who play their part in tackling these.

### **Three Bayer foundations – one shared goal**

When Dr. Carl Duisberg, long-standing Managing Director of Farbenfabriken vorm. Friedr. Bayer & Co., established the first Bayer foundation in 1923, the support program was initially geared towards “medical students in need,” with the aim of enabling them to pay for trips to study abroad. Although the spectrum of the foundations' activities has been expanded significantly over the years, Bayer remains true to the goals of educational support and social responsibility.

The importance of this work was underlined by the move to restructure the Bayer foundations in 2007. The company pooled its traditional programs under the overarching structure of the Bayer Science & Education Foundation and trained the spotlight on issues of relevance to the inventor company Bayer. The Bayer Cares Foundation with its focus on social commitment was added to the mix.

In addition to the two Bayer foundations at company headquarters in Leverkusen, there is also a third company foundation – the Bayer USA Foundation, located in Pittsburgh, United States. This was founded in 1954 and supports regional projects in the communities around the Bayer sites in North America. It focuses on education and science, social neighborhood projects and public health care services.

Together, the three foundations have assets amounting to around EUR 43 million and, through income on investments and program-related donations, usually set aside up to EUR 4.5 million each year for funding.

## The Bayer Foundations at a glance



**Bayer Science & Education**  
Foundation

### Science and education

- ▶ School Support Program
- ▶ Fellowship Program
- ▶ Scientific Awards



**Bayer Cares**  
Foundation

### Social living conditions

- ▶ Volunteering Program
- ▶ Aspirin Social Award
- ▶ Disaster Aid



**Bayer USA**  
Foundation

### Education, science, social projects

- ▶ Education Initiatives
- ▶ Health and Social Programs
- ▶ Environmental Protection and Sustainability

### Supporting science and education

The Bayer Science & Education Foundation centers on people who show a keen interest in science, technology and medicine and who achieve an exceptional performance in these areas. These can be schoolchildren, trainees, university students or outstanding researchers and scientists. Since 2007, the foundation has provided funding of over EUR 2.1 million through a wide range of programs.

Within the scope of the Bayer School Support Program, the foundation aims to boost the appeal of science and technology lessons at schools and make them more innovative. Young people showing a special aptitude in these areas are awarded school scholarships. Budding young scientists are supported through the Bayer Fellowship Program and the Early Excellence in Science Award. Hermann Strenger scholarships offer targeted funding to young people with qualifications in the non-academic sector to allow them to gain their first professional experience abroad. The foundation also honors outstanding research through the Otto Bayer Award, the Hansen Family Award and the Bayer Climate Award.

### Improving social living conditions

The Bayer Cares Foundation has set itself the goal of improving the social living conditions of people around the world. It has already provided over EUR 1 million in funding since 2007 through its support programs.

The foundation's Volunteering Program supports current and former Bayer employees, as well as residents of the communities near the company's sites, who are actively involved in social projects on a voluntary basis. As part of its Disaster Aid Program, the foundation promotes long-term reconstruction projects to provide people who find themselves in acute hardship as a result of earthquakes, forest fires, volcanic eruptions and other natural disasters with renewed prospects for the future. Its Aspirin Social Award honors particularly innovative aid and consultancy services in the health care sector. The Award's slogan is "Hilfe, die wirkt" (support that works).

## Bayer Science & Education Foundation

# A passion for science and a thirst for knowledge

**The Bayer Science & Education Foundation supports people – be they schoolchildren, students or top scientists – who are interested in science, medicine and technology and who achieve an exceptional performance in these areas. The foundation aims to awaken inventive spirit, expand educational horizons and honor outstanding achievements.**

Many people see science, medicine and technology as much more than just dry academic study. For them, these topics go hand-in-hand with curiosity, a thirst for knowledge and sometimes even a life-long passion.

### Inspirational teaching

Ideally, inspiration should strike at school age. For this to happen, there is a need for highly stimulating lessons that transform the simple act of learning into a desire to find out more. The School Support Program of the Bayer Science & Education Foundation helps put

innovative lesson concepts into practice, providing targeted support for projects that boost the appeal of science and technology lessons at school. Representatives of all types of schools located in the areas near Bayer sites can apply for funding.

### Support through scholarships

The foundation is also keen to foster individual talent. For this reason, it has set up the Fellowship Program designed to support talented and ambitious young people. The focus is on schoolchildren, trainees and



## Investing in opportunities for the future

*“As a research-based company, Bayer is reliant on new generations of extremely well-trained young scientists. That is why we attach great importance to investing in opportunities for the future for young people and seek to instill in them an awareness of the importance of science. At the same time, we also pick up on issues that are important for society as a whole – by presenting the Bayer Climate Award for research into climate protection, for example.”*

### Dr. Wolfgang Plischke

Member of the Board of Management at Bayer AG responsible for Innovation, Technology and Environment and a member of both the Board of Directors and the Board of Trustees of the Bayer Science & Education Foundation



## Boosting high-flying science

*“Germany boasts many researchers who deliver first-class results. However, we need to draw attention to these successes on an international stage. To this end, we have to promote talented young people and give them the opportunity to forge international ties. This is where the Bayer Science & Education Foundation comes in. The foundation’s concept is so successful because it promotes science on all levels. We need initiatives like these to awaken interest in science and strengthen Germany’s reputation as a research location.”*

### **Professor Ernst-Ludwig Winnacker**

Secretary General of the Human Frontier Science Program Organization  
and Chairman of the Board of Trustees of the Bayer Science & Education Foundation

students. The scholarship for schoolchildren enables young people interested in science to take part as “Climate Fellows” in international science camps organized by the foundation as part of the Bayer Climate Program. At the camps, the schoolchildren tackle issues of sustainability and climate change – focusing on both theory and practice. The Hermann Strenger scholarship supports professionals with qualifications in the non-academic sector. It provides young people with a scientific, technical and commercial background with the opportunity to spend time abroad for a maximum of one year to gain professional experience there.

For exceptionally ambitious students, support is available through Bayer scholarships for science and engineering, Carl Duisberg scholarships for human and veterinary medicine, and Kurt Hansen scholarships for those aiming to become science teachers. The foundation finances special study projects involving international travel, and therefore grants these scholarships exclusively to students from German-speaking countries wishing to go abroad to pursue projects they have organized themselves or foreign applicants who want to conduct similar undertakings in Germany. Many of those who receive scholarships maintain close ties with Bayer as members of the Bayer Talent Pool, an alumni network that the Group also uses in its search for suitable new recruits.

### **Awards for researchers**

Support also involves recognition. The foundation’s three scientific awards honor groundbreaking research achievements in the field of science. The Otto Bayer Award honors researchers who have made pioneering contributions in chemistry and biochemistry, while the Hansen Family Award is given for outstanding achievements in the field of medical science. Both are among the most prestigious science awards within the German-speaking world. Each comes with a prize fund of EUR 75,000, and they are awarded in alternate years.

The Bayer Climate Award was established in 2008 to honor basic scientific research on the climate and the effects of climate change. This international accolade is awarded every two years and is endowed with prize money of EUR 50,000.

### **Sustainability in China**

To boost the appeal of sustainability in China, the foundation has joined forces with the United Nations Environment Programme (UNEP) to establish a Chair for sustainable development at Tongji University in Shanghai. The Chair will receive funding to the value of US\$ 200,000 every year for five years for research projects, teaching events and scholarships.

## The Bayer School Support Program

# Boosting the innovative strength of schools

Science should capture the imagination of young people at school age – to do so, lessons must be fascinating and vivid. The Bayer Science & Education Foundation sets aside up to EUR 500,000 each year to help dedicated teachers put innovative concepts into practice – from a school observatory to a construction trailer laboratory. Since the School Support Program was launched at the end of 2007, 156 projects have been implemented up to September 2010 at locations around the Bayer sites thanks to funding of around EUR 1.7 million.

### **Project example** Model of a wastewater treatment plant

Companies are all too aware that contaminated wastewater is not just an ecological problem but can also – under certain circumstances – be an economic one, too. A milk-processing company in Kalkar, for example, was charged extremely high rates for wastewater treatment due to the presence of strong organic impurities.

This was reason enough for 10<sup>th</sup> graders at the St. Nikolaus School in Kalkar to think about how the situation could be improved. The Bayer Science & Education Foundation supported this initiative with funding of EUR 1,920.

The schoolchildren investigated whether it made sense to feed the wastewater into a primary clarifier and leave it there until the contamination dropped to the level commonly found in household wastewater. The COD value (chemical oxygen demand) was used to indicate the degree of contamination.

To determine the requisite dwell time for the wastewater in the primary clarifier, the children developed a wastewater treatment model which they used in the laboratory to determine and optimize a wide range

of parameters, such as the pH, temperature and time. Finally, they costed the project and compared the expenditure for building and operating the primary clarifier with the wastewater charges that would be saved as a result.

This professionalism also impressed a team of experts, who awarded the schoolchildren 2<sup>nd</sup> place in the regional “Jugend forscht” youth science competition. They also performed well at the national environmental competition staged by the German Federal Ministry for Education and Research.

### **Project example** Astronomy laboratory

The sky's the limit for children at the Carl Fuhlrott High School in Wuppertal. The school is particularly proud of its astronomy club. The children's interest in the universe continues unabated, and almost all those who participate in the astronomy club go on to study science and engineering after leaving school.

Some time ago, the high school even installed an observatory on the school's flat roof. This project to set up an observatory took place in close cooperation with the University of Wuppertal. The Bayer Science & Education Foundation contributed EUR 20,000 to the initiative.



**Fascinated by the universe:** Thorben Beckert, Philip Richert, teacher Michael Winklaus, Lukas Varnhorst and Jonas Harz (from left) from the astronomy club at the Carl Fuhlrott High School in Wuppertal

As a result, the new school laboratory is also open to larger numbers of visitors, and teachers from the whole region can book the observatory over the Internet. To prevent long waiting times for the telescope, the funding was used to set up six independent observation stations. The close cooperation with the university also means that student teachers, for example, are brought in as guides.

#### **Project example** Taking a close look at water

The Leverkusen-Schlebusch Comprehensive School also has ambitious plans. The special feature of this

school is that it motivates the children to find answers to scientific questions through practical experiments. The children themselves attach great importance to being given the opportunity to conduct independent work and research. The focus is on water.

To enhance their experiments, the Bayer Science & Education Foundation invested EUR 20,548 in equipment for the young researchers. This equipment is used, for example, at the Dhünn river. Having previously been straightened, the river has now been renaturalized in parts, and the school students have been avidly track-

## The Bayer School Support Program



**The structure of nerve cells and nerve fibers** is the subject that school students Gülsah Kosvali and Beyza Ceyhan (right) are studying as part of the “With heart and mind” project at the Robert Koch High School in Berlin.



**Research in a construction trailer:** Schoolchildren Furkan Öztürk, Andre Pauly, Robin Herrmann and Dilara Kocabas (from left) from the Albert Schweitzer School in Neuss. A hole in the outer wall creates an inverted image, turning the construction trailer into a “camera obscura.”

ing the changes that take place there. For example, they identify water organisms, record the speed at which the river flows, investigate the water quality and test the soil humidity of the newly created river islands.

### **Project example** On the scent of smells

At the Paffrath Integrated Comprehensive School in Bergisch Gladbach, students and teachers established links between literature, chemistry and biology – and combined theory with fascinating practice. The Science & Education Foundation helped by funding the project to the tune of EUR 2,100.

After reading the novel “Das Parfüm” (Perfume) by Patrick Süskind, the students in the 11<sup>th</sup> grade used the scientific aspects discussed in the novel to perform chemistry experiments. First, they sketched the procedures Süskind described in the book for creating perfumes. They then put theory into practice by building test setups based on historical models and isolating scents and flavorings from parts of plants – with the aim of creating their own perfume. The ecological aspects of the topic were tackled in parallel in biology lessons.

### **Project example** Research in a construction trailer

A very special construction trailer is one of the attractions at the Albert Schweitzer School in Neuss. The vehicle, which the schoolchildren renovated themselves, is parked in the school courtyard and serves as an optical laboratory.

Funding of EUR 4,000 from the Science & Education Foundation in 2007 was used to buy more equipment for the trailer and to add a research corner. Here, the children now have the opportunity to focus on optical topics in lessons or during their breaks. For example, the construction trailer serves as a “camera obscura.” In future, it is to be fitted with solar cells to enable the children to perform experiments powered by electricity.

**Project example With heart and mind**

Students at the Robert Koch High School in Berlin are turning their attention to anatomy. The Science & Education Foundation has supported a project there entitled “With heart and mind.”

The school spent EUR 14,350 on models that help students explore the basics of medicine and anatomy. For example, students from grades seven to ten have the chance to compare the skulls of different animals.

In addition, they investigate the circulatory system of animals and humans and determine the surface areas and volumes of various organs. They also use simulations to see how alcohol affects the central nervous system. The aim of this project is to enhance skills and promote the fun of experimenting beyond the boundaries of the classroom and to motivate students to examine science-related questions independently.

**Taking a close look at water:**

Students Jan Ackermann, Christopher Silbach and Max Schüller (from left) from the Leverkusen-Schlebusch Comprehensive School investigate the pH and hardness of water.

## The Bayer Fellowship Program

# Knowledge without borders

Schoolchildren, trainees and university students all have the potential to develop the innovations of the future. For this reason, the Bayer Science & Education Foundation is keen to support young people by providing them with scholarships. The foundation places a great deal of emphasis on internationality, which is why it gives young people from Germany and abroad, studying science or medicine or training to be science teachers, the opportunity to expand their horizons by working on cross-border study projects. What's more, professionals in the non-academic sector receive scholarships for international work experience and study trips. And school students have the chance to become "Climate Fellows" at science camps focusing on sustainability and climate change.

The Science & Education Foundation wants to support young people and help them expand their horizons through international activities. Each year, the foundation spends up to EUR 230,000 on scholarships for study abroad.

The foundation's traditional academic programs support highly ambitious students of science and medicine, sponsoring individual international projects by students from German-speaking countries wishing to go abroad and foreign applicants who want to study in Germany.

The Bayer scholarship is open to students whose main area of study is biology, biochemistry, biotechnology, bioprocess engineering, chemistry, chemical engineering, pharmacy, physics or statistics/biometry. The Carl Duisberg scholarship is awarded to students specializing in human and veterinary medicine for projects that form part of their main studies and are related to cardiology, oncology, inflammation, gynecology or diagnostic imaging. And the Kurt Hansen scholarship is open to students on teacher training programs for scientific

subjects. Support from the foundation enables them to undertake a project abroad that they have chosen themselves, including study projects, internships, summer courses, postgraduate and complementary courses and dissertations.

Support in non-academic areas also has an international character. Young professionals and trainees looking to gain work experience abroad in commercial, technical or science-based vocations or in professions in the health care sector can apply for a Hermann Strenger scholarship.

All scholarship holders receive the funding they need to cover living and travel expenses and other project costs for up to a year. They must describe their project in detail and submit a specific budget plan when returning their application.

### Working as an occupational therapist in South Africa

Martina Knittel's scholarship proved to be a life-defining experience. Now 28, Ms. Knittel had just finished

her training to be an occupational therapist when she took up her Hermann Strenger scholarship. She went to Cape Town in South Africa for six months to gain initial work experience.

“I was already very interested in development cooperation back then and wanted to work in the non-profit area in the health care sector,” she recalls. She got the opportunity to do just that in a hospital financed by donations, where she worked primarily with children with burn injuries. “Paraffin is used a lot in the slums around Cape Town. That’s why there are often explosions – and many people are seriously disfigured by fire.” Knittel was tasked with delivering all-round care for people with burn injuries – from providing psychological support to assisting with prostheses.

“The scholarship played a key role in shaping my future,” she says today. On returning home, she began to study sociology and African ethnology alongside her work as an occupational therapist. In the future she hopes to return to Africa to work for a development organization, preferably in the health care sector.

### Research in Northern Ireland for practice-based lessons

Peter Nelle was drawn to cooler climes. Now 28, the student teacher for chemistry and biology at the Albert Schweitzer High School in Marl received a Kurt Hansen scholarship to fund a period of study at the Queens University in Belfast from February to the end of July 2009.

“At the time I had completed my teacher training and wanted to learn how the food chains in a body of



**Peter Nelle**

Student teacher for biology and chemistry and winner of a Kurt Hansen scholarship



**Martina Knittel**

Occupational therapist and winner of a Hermann Strenger scholarship

water could be examined and what methods could be used,” explained Nelle. He is now using the acquired knowledge to develop materials for practice-based biology lessons in cooperation with the Center for Didactics of Westfälische Wilhelms University of Münster. These materials are intended to help senior students in high school use scientific methods to research food chains – a project funded by the Science & Education Foundation to the tune of EUR 10,900.

## The Fellowship Program



**Marília Torres Lopes Rauck**

Food technology student and winner of a Bayer scholarship

**Hannes Leischner**

Physician and winner of a Carl Duisberg scholarship



**Melissa O'Brien**

Biology student and winner of a Bayer scholarship

In concrete terms, Nelle spent his scholarship with a group of fish biologists studying the food chain in Strangford Lough, a saltwater lake to the south of Belfast. “To put it simply, we spent our time examining who ate whom.” The results of the study are important for understanding the lake’s ecosystem.

### Studying food technology in Germany

Marilia Torres Lopes Rauck is also concerned with food, but the Brazilian is more interested in the quality of foodstuffs – and their production. She is studying food technology at the University of São Paulo and spent 2009 at the Institute of Process Engineering in Life Sciences at the University of Karlsruhe on the back of a Bayer scholarship. Here, the young scientist focused primarily on process engineering. “Producing high-quality food is an important topic in Brazil.” In Karlsruhe, Rauck researched mechanisms that help homogenize emulsions, such as milk. To this end, she

performed experiments with different homogenizers and simulated the processes with the help of a software program.

### Experiencing hospital life in India and China

Hannes Leischner, who today specializes in hematology and oncology at the Rechts der Isar University Hospital in Munich after passing his medical exams, was attracted to India. As a medical student, Leischner spent four months of his practical year in India and China – thanks to a Carl Duisberg scholarship. “I was interested in how medicine was practiced in these countries. And I also used the time to prepare for my final exams.”

Backed by funding of EUR 2,800 from the foundation, Leischner first worked for two months at the King Edward Memorial Hospital in Mumbai, gathering experience in radiology and internal medicine. “The hospital is financed by the government. This is where the

poorest sectors of the population are treated.” It was, he says, an intensive experience, both from a cultural and human perspective.

He then spent the next two months at the Shanghai Children’s Hospital of Jiatong University – one of the four oldest children’s hospitals in China – where he worked in pediatric oncology and intensive care. This was an enriching experience for the budding physician who is chiefly interested in hematological oncology, an area specializing in cancer and diseases of the blood.

### Researching morphology in Shanghai

Melissa O’Brien focused on neurobiological issues during her research at the Institute of Neuroscience in Shanghai from July to September 2009. The Bayer scholarship helped O’Brien, then studying for a Master’s degree in biology, to refine the subject matter of her Bachelor’s dissertation. Working as part of a research group, she examined how different living conditions impacted on the neuronal activities of mice. “In concrete terms, we examined whether an environment with many positive influences could create more neuronal associations in the brains of mice.”

O’Brien had made contact with the institute in Shanghai during her time at the Brunswick University of Technology, where she worked as a lab assistant in the Department for Cellular Neurobiology. She began studying for a PhD in January 2010 and has remained true to her chosen topic, continuing her research into the morphology of neurons. She sees the scholarship she won to China as an important stage in her professional development. The foundation supported her studies with a sum of EUR 6,000.

## Bayer Climate Fellows

### Early commitment to sustainability and climate protection



**Bayer scholarship holders** Leonie Brüggnerwerth (right) and Martin Rohbeck collect water and mud samples off the coast of Pittsburgh.

How does the water ecosystem work? What can we do to stop climate change? How can we protect resources in the long term? These are just three of the many questions tackled by school students from Germany and the United States at a two-week Bayer Sustainability Camp in Pittsburgh, United States. They engage with these topics with a great deal of enthusiasm – not to mention curiosity. Committed to climate protection, these young people have the opportunity during the camp to expand their knowledge and establish contact with like-minded students. They attend lectures, discuss key topics with experts and take part in excursions involving laboratory and fieldwork experiments. For example, the Climate Fellows navigate along rivers to collect soil and water samples, which they then evaluate.

The Science & Education Foundation selects the young people aged between 14 and 16 from a large number of applicants. The scholarship was set up in 2008 as part of the Bayer Climate Program. Since then, the foundation has contributed a total of EUR 86,582 to this initiative. The Bayer USA Foundation and the environmental organization RiverQuest are jointly responsible for the sustainability camps. The third round of funding took place in the summer of 2010.

Since 2009, the foundation has been inviting students to take part in a competition following the sustainability seminar, with the aim of finding the best “climate idea.” The students are called on to give free rein to their imagination on the subject of climate protection and to put their ideas in writing. A panel of experts then selects the best idea. The winner in 2009 was Annika Mester from Werl with a suggestion for converting greenhouse gases into biomass. Her prize was a 14-day internship at Bayer laboratories.

## Scientific Awards

# Honoring pioneering research

**For many years now, the Bayer Science & Education Foundation has championed scientists who achieve outstanding results in their field. The foundation awards two prestigious prizes for pioneering work in chemistry, biology and medicine. An award for climate research was added in 2008 and one for up-and-coming young scientists in 2009.**

These awards are based on the premise that someone who stands head and shoulders above the rest deserves recognition. Therefore, the Science & Education Foundation honors exceptional scientific achievements with four different awards.

### **Otto Bayer Award**

The foundation has presented the Otto Bayer Award for pioneering contributions to research in biochemistry and chemistry since 1984. This award, which was founded in memory of the inventor of polyurethane chemistry and long-standing head of research at Bayer AG who died in 1982, is one of the most sought-after scientific awards in Germany.

The recipient of the award (with a prize fund of EUR 75,000) in 2010 was Professor Detlef Weigel, Director of the Max Planck Institute for Developmental Biology in Tübingen, for his outstanding research contributions in plant genetics. His work in the field of molecular biology is designed to predict how wild and crop plants will react to the current rapid environmental changes.

### **Hansen Family Award**

Presented in alternate years with the Otto Bayer Award, the Hansen Family Award is also endowed with EUR 75,000 and was launched in 2000. Initiated by Profes-

sor Kurt Hansen – former Chairman of the Board of Management and Supervisory Board of Bayer AG – the award is presented to scientists who perform groundbreaking research in the field of medical science.

In 2009, this high-caliber award was presented to Professor Patrick Cramer from the Gene Center of Ludwig Maximilian University in Munich for his outstanding achievements in the field of RNA research. His work on the molecular mechanisms of gene transcription and regulation can help to find new approaches to treating diseases and improving biotechnological processes.

### **Bayer Climate Award**

The Bayer Climate Award, initiated in 2008 by the Bayer Science & Education Foundation and the first international award of its kind, is presented for outstanding achievements in fundamental research in climate science. It comes with a prize fund of EUR 50,000 and honors innovative research projects that help understand climate change and provide solutions for dealing with its consequences.

The award is an integral element of the Bayer Climate Program and is presented every two years. As part of its Group-wide climate protection initiative, which was launched in 2007, the company aims to drive forward

new solutions for climate protection and dealing with climate change. Bayer also wants to promote socio-political dialogue about climate change and create incentives for scientific innovations outside the company as well.

The first winner of the Bayer Climate Award in 2008 was Professor Eberhard Jochem, a leading international expert in rational energy usage and energy and climate policy. In 2010, the award went to Professor Peter Lemke of the Alfred Wegener Institute for Polar and Marine Research (AWI) in Bremerhaven. Lemke was honored for his fundamental and pioneering contributions to establishing the relationship between sea ice and the climate. For more than 30 years, he has been observing climate-relevant processes in the atmosphere, in sea ice and in the oceans. He focuses particularly on the interactions between them, as the formation or melting of ice is closely linked to air and water temperatures. Long-term trends in the atmosphere and the oceans are therefore reflected in sea ice.

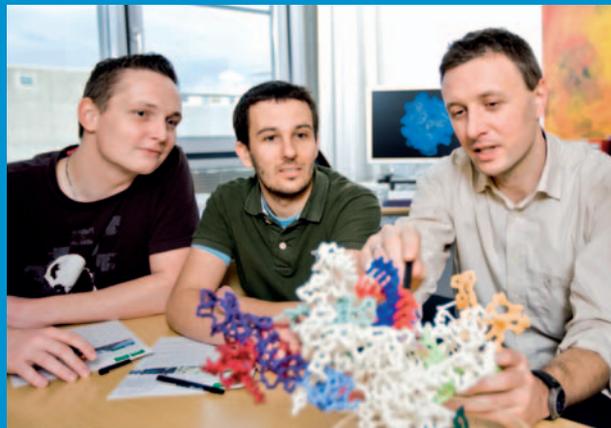
#### **Bayer Early Excellence in Science Award**

The foundation launched the Bayer Early Excellence in Science Award with the aim of honoring talented young scientists whose innovative contributions stand out at an early stage in their academic career.

The award is presented annually in the categories biology, chemistry and materials, each with prize money of EUR 10,000. The aim of the award is to encourage exceptionally gifted young scientists and help them achieve a breakthrough with their innovative ideas. The award was presented for the first time in 2009. Dr. Noriyuki Nishimura from the University of California in San Diego won the in the biology category,

#### **Prof. Detlef Weigel**

Director of the Max Planck Institute for Developmental Biology in Tübingen and winner of the Otto Bayer Award 2010



#### **Prof. Patrick Cramer**

Head of the Gene Center of Ludwig Maximilian University in Munich and winner of the Hansen Family Award 2009

#### **Prof. Peter Lemke**

Head of Research at the Alfred Wegener Institute for Polar and Marine Research in Bremerhaven and winner of the Bayer Climate Award 2010



Dr. Tobias Ritter from the Institute for Chemistry and Chemical Biology at Harvard University in the United States claimed the chemistry category, and Dr. Jürgen Groll from the Deutsches Wollforschungsinstitut (German Wool Research Institute, DWI) at RWTH Aachen University won in the materials category.

## The Bayer Cares Foundation

# Promoting social innovation

**By assuming responsibility for others and lending a helping hand, the social programs of the Bayer Cares Foundation support people who are committed to helping others through innovative ideas and outstanding dedication. The foundation encourages voluntary commitment, honors new socio-medical approaches, and provides long-term assistance for people who find themselves in acute hardship as a result of natural disasters.**

The foundation places particular importance on supporting voluntary work in communities around the Bayer sites. It is keen to help current and former Bayer employees and residents near the company's sites who dedicate their time to voluntary social projects. It sets

aside a total annual budget of up to EUR 150,000 for funding projects with individual grants of up to EUR 5,000 each year. Since the Volunteering Program was started at the end of 2007, it has provided 92 projects with funds totaling EUR 282,000 up to September 2010.

## More than just financial aid

*“Regarding Bayer’s corporate social responsibility, we are particularly proud of current and former employees who play an active role in a diverse range of social projects. It is their dedication that helps make the Bayer Cares Foundation what it is today, as they contribute their valuable time and skills. At the same time, the helpers also get a great deal out of these civic initiatives. They provide aid and commitment and receive recognition, rewarding experiences and often – particularly on retirement – a new purpose in life in return. We want to promote this type of commitment that helps generate shared values.”*

### **Dr. Richard Pott**

Member of the Board of Management of Bayer AG responsible for Strategy and Human Resources  
Member of the Executive Committee and Board of Trustees of the Bayer Cares Foundation





## A strategy of sustainable commitment

*“I am delighted when a company interweaves corporate social responsibility into its sustainability strategy and assumes responsibility for public welfare in its role as a good corporate citizen. To achieve success in this area, it is essential that the company does not restrict itself to providing only financial aid. Ideally, the employees themselves should play a key role and bring their specialist expertise to bear. It is also important that projects are sustainable and established in areas where this expertise covers a social demand. The Bayer Cares Foundation meets these criteria, which is why I am happy to support its work.”*

### Professor André Habisch

Professor for Christian Social Ethics and Society at the Catholic University of Eichstätt-Ingolstadt and Chairman of the Board of Trustees of the Bayer Cares Foundation

### Voluntary work: Active support for the community

The projects supported are extremely wide-ranging – some volunteers visit kindergartens to give children an idea of how fascinating science can be, others support young people at schools in conflict situations, while others advise families who find themselves in serious debt, to name just three of many examples. However, all projects have one thing in common – people who are committed to helping others and who want to make a specific contribution to improving their quality of life. The Bayer Cares Foundation wants to support and honor this important commitment, true to the slogan of the foundation program – “Being a role model pays off.”

### The Aspirin Social Award

The foundation’s Aspirin Social Award, which was established in 2010, honors exemplary aid and consulting services in the health care sector. The award comes with a total prize fund of EUR 35,000. The winner receives EUR 15,000, the runner-up EUR 10,000 and the third place winner EUR 5,000. In addition, an audience prize also worth EUR 5,000 is awarded to the winner of an online voting process. Winning projects should demonstrate an innovative approach that can serve as a model for others, a long-term impact and

professional project management. The award’s slogan is “Hilfe, die wirkt” (support that works).

### Reconstruction projects in the event of disasters

Disaster aid is another focal point of the Bayer Cares Foundation. Worldwide, people are faced with disasters such as earthquakes, forest fires and volcanic eruptions that can turn their world upside down from one day to the next. The goal of the foundation is to give the people affected renewed prospects for the future through reconstruction projects.

To ensure that the aid really meets the needs of the victims, the foundation works closely with the relevant Bayer national companies and recognized aid organizations in the local region. This ensures that the support is provided where it is really needed. The expertise of Bayer employees is also brought directly to bear on reconstruction projects, such as building schools and hospitals. Use is also found for many of the company’s products.

The foundation sets the amount of aid to be provided on a case-by-case basis in consultation with the Bayer Group. With reconstruction projects, great importance is also attached to sustainability, because it is only when today’s support continues to bear fruit in the future that those affected will really benefit in the long term.

## The Volunteering Program

# Being a role model pays off

**Behind every voluntary project there is an exceptional person, someone who is prepared to use his or her time and skills for the needs of others. It is this exemplary commitment that the Bayer Cares Foundation seeks to promote. It supports current and former Bayer employees and other members of the community who take part in voluntary social projects located around the Bayer sites.**

It sets aside up to EUR 150,000 each year for a range of social initiatives. Since the program was founded in fall 2007, it has backed no fewer than 92 projects with funds totaling EUR 282,000 up to September 2010. The program currently focuses mainly on activities in Germany, but was also introduced in Latin America in 2009. It

supports dedicated volunteers who seek to sustainably improve the social living conditions of others through innovative ideas and outstanding dedication. The program's slogan is "Being a role model pays off!"

### **Project example** Conflict mediators

How can conflicts be settled amicably? As a former member of the Works Council at the Leverkusen site, retiree Achim Scharte certainly knows his way around the topic of conflict resolution. Now he spends his time showing schoolchildren how quarrels can be solved respectfully and without violence. Scharte and his co-workers received EUR 5,000 from the Bayer Cares Foundation to help with this initiative.

This project provides young people with someone they can talk to either at school or in their free time. It is designed to bridge the gap between generations. It also takes the strain off teachers, who then have the time to focus on their core tasks.

Experience so far has shown that Scharte's project has had a positive impact on the children's confidence. And it strengthens their conflict resolution skills in the long term. It also helps improve their performance at school. The Bayer Cares Foundation is helping to ensure that the project will continue in the future. For example, the



**Achim Scharte**, Bayer retiree and former member of the Works Council at the Leverkusen site, works as a mediator in elementary schools.



**Michael Römer**, employee at Bayer HealthCare, dedicates his free time to children suffering from cancer and to their parents.

**Cemile Karagöz**, employee at Bayer MaterialScience, participates in the "Industry and School" project.

financial support it provided in 2008 enabled a further 15 senior citizens to be trained as mediators, ensuring that peaceful conflict resolution becomes an integral part of everyday life.

#### **Project example** Assistance for under-performing students

Cemile Karagöz wants to ensure that students successfully master the transition from school to work. The Bayer MaterialScience employee supports the "Industry and School" project, which has developed a working group of the same name for the town of Dormagen. The aim is to encourage students to think about what they want to do after school before they enter the 10<sup>th</sup> grade – and thus successfully master the transition from school to vocational training.

The project involved eight under-performing students from the Hermann Gmeiner School and the Municipal High School at the Sports Park. Karagöz and her team of volunteers provided the students with one-on-one tutoring and support for an entire school year. They helped the young people fill in gaps in their knowledge and provided career advice. They also fostered contacts with companies, including Bayer, and organized internships.

The funding of EUR 5,000 from the Bayer Cares Foundation helped equip the group with computers and finance various events to motivate the young participants.

#### **Project example** Convalescence trips for children with cancer

Michael Römer from Bayer HealthCare was inspired to help others by his own painful experience. Twelve years ago, his daughter died of cancer at the age of 15. Since then, he has dedicated much of his free time to helping people suffering from this disease. As a member of the Wuppertal-based "Initiative für krebskranke Kinder" (initiative for children suffering from cancer), Römer supports the young patients and their parents during the children's time in hospital and provides help in re-organizing their life at home. "When you meet up with children who have overcome the disease and see the light in their eyes, you know that it was worth every minute of your time," says Römer.

With the help of EUR 5,000 from the Bayer Cares Foundation, Römer was able to organize a special trip and convalescence weekend for 70 children and parents in summer 2008. He is certain that "this kind of weekend is very important for the families. It strengthens the bonds

## The Volunteering Program



**Dr. Michael Lange**, Bayer retiree, awakens an interest in science among elementary school students.

**Günter Huber**, former catering supervisor at Bayer, shared his expertise with the staff at an orphanage in Nicaragua.



between those affected by the tragedy and helps them feel less isolated.” He is delighted to be able to count on his employer for support.

### **Project example** **Awakening an interest in science**

Children are also at the heart of the project started by the retired Bayer chemist Dr. Michael Lange. He regularly conducts experiments with children at the Dierath Community Elementary School in Burscheid,

with the aim of awakening their interest in science. He dedicates his heart and soul to the project: “As a chemist with many years in the industry, I am delighted when I see how I can use the children’s natural curiosity to generate a fascination for science.”

Under the slogan “What I always wanted to know,” Lange offers an extra two lessons on Thursdays that supplement the regular timetable and are very popular with the children. Guided by the experienced chemist, the students divide into small groups to investigate fascinating phenomena and questions such as: Why does a paper clip float on water? Why does a rainbow have so many different colors? And why do planes leave vapor trails in their wake? EUR 2,000 from the foundation enabled Lange to buy technical equipment, such as microscopes and an experiment box, to make the lessons even more interesting.

### **Project example** **Open-air theater**

#### **“Freilichtbühne Werne”**

Uwe Wittenberg is also interested in creating special effects. The Bayer employee, who works as an assistant in microbiological production at Bayer Schering Pharma in Bergkamen, is involved with the open-air theater “Freilichtbühne Werne,” where he is primarily responsible for lighting, sound and special effects. The theater is one of the main attractions of the small town, attracting between 15,000 and 20,000 spectators from across Germany each year. Two plays are performed each year, involving up to 70 children and young people between the age of 2 and 18. Altogether, the project features up to 120 children, young people and adults carrying out a range of tasks either on stage or behind the scenes. The



**Uwe Wittenberg**, employee at Bayer Schering Pharma, is involved in the “Freilichtbühne Werne” open-air theater.

end of the season is traditionally marked with a fireworks display.

In 2009, the foundation supported Wittenberg and the open-air theater with the sum of EUR 3,000. This money was used, among other things, to replace the microphone system and buy a snow canon. In addition, Wittenberg also attended a pyrotechnics training course so that he will be able to organize the popular stage firework display by himself in the future.

#### **Project example** Culinary training at an orphanage in Nicaragua

Günter Huber, former catering supervisor at the Bayer visitor canteen in Dormagen, traveled to Nicaragua in 2008 to pass on his expertise to the staff at the Casa Santiago orphanage. His help was urgently needed, be-

cause, although the employees at the orphanage had a big enough area to grow vegetables, they did not know exactly how best to prepare and cook them.

Huber trained the staff in handling food and showed them how to cook tasty, affordable meals. He also addressed issues of hygiene and demonstrated how to use, clean and service kitchen equipment in order to extend its service life. His support helped improve both the food and the children’s quality of life considerably.

His trip was financed mainly by the Federal Ministry for Economic Cooperation and Development and the aid organization behind the orphanage. The Bayer Cares Foundation paid for all the other costs, such as the flight and medical supplies, and donated EUR 1,990 to the project.

## The Aspirin Social Award

# Support that works

The Bayer Cares Foundation established the Aspirin Social Award to support social aid and consultancy services in the health care sector. It was awarded for the first time in summer 2010, honoring four initiatives that offer exceptional and groundbreaking services.



**Grief counseling:** The psychologist Ines Schäferjohann reads from the book “The best funerals in the world” to brothers Robin (left) and Jannik, who have lost their mother.

In Germany, many thousands of people are involved in caring for the health and general well-being of others on a daily basis. The Aspirin Social Award from the Bayer Cares Foundation was founded with the aim of raising their public profile. The award is bestowed on social projects that close gaps in the health care sector through innovative aid and consultancy services. There was a big response to the first award in 2010. The Bayer

Cares Foundation received 146 applications, with nine candidates being short-listed in a two-stage selection process. These nine candidates were joined by one other project chosen by the public using online voting. Three winners were then selected from these ten finalists, with prize money totaling EUR 30,000. The public’s favorite received EUR 5,000.

### **1<sup>st</sup> place** Grief counseling center for children

The winner tackles a topic that attracts little attention in the public sphere. The “Trauerland: Grief counseling for children and young people” initiative helps children cope with the loss of loved ones. It was the first institution in Germany to provide grief counseling for children and young people and remains one of only a handful of associations geared towards this objective today.

Educators, psychologists and trained volunteers help young people deal with grief in their own way through group therapy, individual counseling and crisis intervention – face-to-face, by phone or online. The initiative has today built up a network of 130 volunteers and twelve full-time employees in Bremen and – since 2006 – in Oldenburg.

### **2<sup>nd</sup> place** Help for children with parents suffering from mental health problems

Children and young people are also at the heart of the project that came second – the Ambulante Sozialpädagogik Charlottenburg (AMSOC) initiative. There is little support for children whose mother or father suffers from



**Young heroes:** Association members Arend Remmers, Jule Knippel, Annika Auer, Bastian Ipach, Angela Kotter, Janna Trauernicht, Ina Brunk and Nicolas Höfer (from left) with organ donor cards



**Sponsoring scheme:** Clara (left) from Berlin-Charlottenburg is a regular guest at Antonia's family home in Schönefeld. Clara's mother, who suffers from mental health problems, knows that her daughter is in good hands.



**Hospice association:** Wolfgang Brünker looks after a child with a terminal illness. The association also offers parents support at this difficult time.

mental health problems, and they usually do not know who to turn to for help. Love and a feeling of responsibility drive them to look after the parent in question – even though it is they themselves who need care and attention.

AMSOC finds specially trained volunteers to provide an emotionally stable base for these children. The childminders look after the children at least once a week and one weekend per month, build up a relationship of trust with them, and are available whenever the children need someone to talk to. If the parents agree, the childminder begins to establish a relationship with the child while the parent in question is still able to care for them him or herself. The project is supported by 28 volunteers and three full-time employees.

### **3<sup>rd</sup> place** Organ donation initiative “Junge Helden”

Third place went to the “Junge Helden” (Young heroes) initiative, which was founded in 2003 with the aim of raising awareness about organ donations among the general public and particularly among young people aged between 16 and 35. The initiative wants to motivate young people to think about organ donations, to make a decision – and to document their choice by carrying an organ donor card. In the eyes of the organization, anyone who seriously thinks about the topic and takes the time to form an opinion is a “junger Held.”

To spread the word, the organizers rely on information, open dialogue and modern communication media, including a website, a Facebook page and a series of parties organized under the slogan “Ein Club voller Helden” (a club full of heroes). “Junge Helden” also arranges visits to schools, benefit events and discussion meetings – featuring politicians and physicians, etc. – at companies and in clubs and cinemas. The association currently has around 15 volunteers who have issued more than 10,000 donor cards since it was founded.

### **Audience prize** Supporting terminally ill children and their families

The Deutscher Kinderhospizverein (German children's hospice association) received the audience prize. This association supports children who are suffering from terminal illnesses and their families, who know that their child is going to die before them. The Deutscher Kinderhospizverein offers extensive support, advice, understanding and counseling for those affected in this most difficult of times – from the diagnosis until after the child has passed away. The organization was the first to provide an in-patient children's hospice in Germany. Comprising a network of over 500 volunteers and 36 full-time employees, the Deutscher Kinderhospizverein helps families deal with the hand that fate has dealt them.

## Disaster Aid

# When nature hits out

Natural disasters such as earthquakes, volcanic eruptions and forest fires can turn people's lives upside down in a matter of seconds, leading to despair and acute need. That is why the Bayer Cares Foundation wants to give these people renewed hope for the future through sustainable reconstruction projects.



**Help after the earthquake in Haiti:** Caritas employee Gabriel Pierre and an assistant hand out medical supplies. The Bayer Cares Foundation provided EUR 350,000 to finance the expansion of a medical station in Léogâne, the city worst hit by the earthquake.

It is not just areas of land that natural disasters destroy – they also have a sudden and immediate impact on people's lives. Those affected often lose loved ones, their home and all their possessions. The Bayer Cares Foundation sees providing these people with help and support as one of its most important tasks. In doing so,

it takes on responsibility for the future by helping to improve the living conditions of people in crisis areas in the long term through reconstruction projects.

In recent years, earthquakes have shaken entire regions – and attracted public attention worldwide.

### China Help that brings hope

In May 2008, the province of Sichuan in south-west China was hit by an earthquake of such magnitude that the effects were felt 1,500 km away in Beijing. It caused buildings in Shanghai to sway and was even felt in Taiwan and Bangkok. It caused many thousands of deaths and damaged or destroyed more than five million buildings in Sichuan and neighboring regions. Around 5.8 million people lost their homes.

In cooperation with the Bayer Group, the Bayer Cares Foundation raised EUR 817,189 to provide long-term aid in the badly hit city of Dujiangyan. Joining forces with the Red Cross Society of China, it set up modern containers to function as 20 classrooms, 50 houses and a mobile clinic on the premises of the Sichuan Technology and Business College, which was also completely razed to the ground. Expert teams from the three Bayer subgroups and Bayer Technology Services were directly involved in the planning, logistics and construction of the containers, which were to serve as living quarters, classrooms and treatment rooms. The



#### Housing for the victims:

Bayer employee Brenda Gong with children in front of emergency accommodation financed by the Bayer Cares Foundation in China. The Bayer Group and the foundation raised funds of EUR 817,189 to provide sustainable aid on-site.

school was also provided with medicines, beds, whiteboards and other fixtures and fittings so that classes could start again just three months after the disaster had struck. This gave the people new hope and the courage to start the slow process of rebuilding the destroyed province.

#### **Haiti** Improving health care

Just 20 months after the earthquake in the Chinese province of Sichuan, another massive earthquake hit one of the poorest countries in the western hemisphere – Haiti. In just a few minutes, the natural disaster swept through the capital of Port-au-Prince, leaving up to 300,000 dead and countless injured. Eyewitnesses described the disaster as one of biblical proportions.

The Bayer Cares Foundation called on the employees of the Bayer Group to make donations – and the response was overwhelming. In total, employees in 34 countries collected EUR 250,000, to which the Group added EUR 100,000, thus bringing the total to EUR 350,000. Together with Caritas International, the Bayer Cares Foundation is using this money to build a health center to provide medical care for 30,000 people. For this purpose, an existing Caritas medical station in Léogâne, the city in

Haiti most severely affected by the earthquake, will be expanded into a proper health center. The center, which includes a medical laboratory, will provide services above all to pregnant women and children and will also offer vaccination, health care and hygiene programs to the general population.

This expansion will make the health center a central coordinating point for the smaller medical stations in Léogâne. As part of the project, the facilities of the destroyed station will have to be entirely restored or replaced. The center will be equipped with running water, an electricity supply, sanitary facilities and a disposal system, all utilities it did not have before the earthquake. The workforce at the health center will be taken from the local population.

“We are very grateful to Bayer employees around the world for their support,” says Oliver Müller, Head of Caritas International. “The project, which Caritas International will be in charge of implementing, will improve the medical situation in Léogâne in the long term, because it is now a matter of working with the local population to establish basic services. Improving medical provision is an important part of this.”

## Bayer USA Foundation

# Half a century of commitment

**The story of the Bayer USA Foundation goes back to 1953. The foundation represents the company's social commitment in the United States and today is involved in a wide range of different activities.**

**The financial support provided by the foundation is focused on education and training, the environment and sustainability, health and social needs, as well as the arts and culture.**

While the foundation focuses on the communities and states that are home to Bayer sites, it also supports national projects. In 2009, it supported more than 180 projects with total funds of US\$ 4.9 million. These

ranged from organizations that offer care and shelter to women who have been victims of violence to a program that provides children with backpacks full of healthy food, and cultural and environmental programs.



**"Water Matters to Youth, Too"** was the motto of the workshop at the Carnegie Science Center in Pittsburgh. The Bayer USA Foundation invited students to attend the event as part of its involvement in World Environment Day 2010 in Pittsburgh.



**The Bayer USA Foundation supports** a project at Robert Morris University that aims to promote voluntary work in charitable organizations. Bayer employees Chuck Adreon, Kevin Kramer, Lisa Floro and Linda Cawthon Griffin (from left) are among those preparing to take on the responsibility of working in relevant organizations.

### Scholarships at colleges and universities

A key focal point of the foundation's work in the field of education and training is to encourage an interest in careers in science and technology. The programs in this area are targeted specifically at groups who are under-represented in these fields, such as women and ethnic minorities.

The Bayer USA Foundation also cooperates with colleges and universities to offer science, technology, engineering and math scholarships to students from these groups. In 2009, the foundation also launched a three-year program to offer professional development resources to 30 science teachers starting out on their careers.

### Health and social service programs

A decade ago, the Bayer USA Foundation provided seed money for the Bayer Center for Nonprofit Management at Robert Morris University in Pittsburgh. Today, the foundation continues to support this center in its mission to provide the leaders of nonprofit organiza-

tions with education and research opportunities that help their organizations become sustainable and financially viable in order to achieve their goals.

In the field of health care, the Bayer USA Foundation supports organizations dedicated to specific treatment sectors. For example, the foundation finances educational material and programs for those with inadequate health care coverage.

### Commitment to the environment and sustainability

A key aim of the foundation in terms of its commitment to the environment and sustainability is to pass on practical experience in ecological education to students and teachers. In 2010, for example, World Environment Day played a key role in these projects. Moreover, the Bayer USA Foundation also supports workshops for teachers and the Bayer Sustainability Camp in Pittsburgh, which is attended by students every summer. The camp is organized in cooperation with the Bayer Science & Education Foundation.

# Foundation committees

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#### School Support Program

Prof. Gisela Lück, Prof. Bernd Ralle (since Oct. 1, 2009), Dr. Birgit Fassbender, Dr. Ernst Grigat, Dr. Hans-Joachim Raubach, Michael Schade, Thomas de Win

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**Millie Janelle Ruffin de Tekampe**

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**Aspirin Social Award**

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# Complete overview of funding 2007 – 2010

(up to September 2010)

Bayer Science & Education Foundation: School Support Program		
Supported school	Project	Amount [EUR]
<b>2007</b>		
Rahn High School in Neuzelle Monastery, Neuzelle, Berlin site	Project work on water analysis and cosmetics manufacturing: New equipment for the biology and chemistry room	1,139
“Freie Schule Pankow” school, Berlin	Special room for scientific experiments	26,356
Municipal Junior High School at Dormagen Sports Park	Basic principles of chemistry: Supporting career choices	2,500
Albert Schweitzer School, Neuss, Dormagen site	Conversion of a construction trailer in the school yard into a “camera obscura.” Used as an integral part of basic science lessons	4,000
Carl Fuhrrott High School, Wuppertal	Creation of observation points for the astronomic observatory on the school roof	20,000
Werner Heisenberg High School, Leverkusen	Promotion of science teaching as part of the International Baccalaureate Diploma Programme	50,000
Konrad Adenauer High School, Langenfeld, Leverkusen site	Project work on bionics	15,000
Essen-Borbeck Municipal Girls High School, Leverkusen site	Science for Girls: Robotics club for girls	14,850
Lebensbaumweg Catholic Elementary School, Cologne, Leverkusen site	Researchers and Explorers: Research stations in the elementary school	9,388
Leverkusen-Schlebusch Comprehensive School, Leverkusen	Energy Detectives: Environmental education with a focus on energy	5,000
Solingen Municipal Comprehensive School, Leverkusen site	Bergisches Schul-Technikum (technical school project for the Bergisches Land region): Career guidance for technical careers	10,000
Kirchstrasse Catholic Elementary School, Leichlingen, Leverkusen site	Practice makes perfect! Experiment-based basic science teaching in the elementary school	2,000
Rhine High School, Cologne, Leverkusen site	MINT initiative: Promoting math, IT, natural sciences and technology	22,526
Freiherr vom Stein High School, Leverkusen	Offering interdisciplinary projects to support students with a talent for and interest in science	19,400
Leichlingen Municipal High School, Leverkusen site	Equipping science rooms with a state-of-the-art laboratory system	93,346
Lise Meitner High School, Leverkusen	Unlocking potential through research: Afternoon experiments in the physics and chemistry club for grades 5 and 6	14,000
Otto Hahn High School, Monheim	The kidney: Substance concentration, osmosis, dialysis	4,500
Ter Meer Junior High School, Krefeld-Uerdingen	New equipment for the chemistry room, interdisciplinary teaching	10,000
Fabritianum High School, Krefeld-Uerdingen	From rock salt to high-tech product: Inter-grade experiments on organic chemistry and electrochemistry	11,425
“Cologne Model” at the University of Cologne, Leverkusen site	Support for “Chemie entdecken” (Discover chemistry) competition for school students and for initiatives run by the science teacher training section of the University of Cologne	45,400
<b>2008</b>		
Galiliei High School, Hamm, Bergkamen site	Introduction of specialist courses: Science subjects to promote the methodological abilities of children from homes where education is not a key focus	7,000
Max von Laue Junior High School, Berlin	Viniculture project: Project-based science teaching for instrumental analysis, biochemistry, microbiology and molecular biology	40,000
Lessing High School, Berlin	Establishment of a center for scientific work as part of an initiative to support particularly gifted students in Berlin; establishment of a laboratory for the science club	10,000
Lise Meitner School, Berlin	LiseLabs: Various scientific laboratories focusing on key themes are available to students in the region; in addition teacher training initiatives	15,000
Robert Koch High School, Berlin	Project “With heart and mind:” Science club to investigate the brain volume and cardiovascular system of various animals	14,350

## Bayer Science & Education Foundation: School Support Program

(continued)

Supported school	Project	Amount [EUR]
Humboldt High School, Berlin	New school pond and expansion of photometric measurement techniques in order to carry out biochemical studies of aquatic systems	7,000
Fichtenberg High School/Center for Sustainable Development, Berlin	Acquisition of environmental measuring kits for various schools in Berlin; key focus on environmental protection and sustainability	9,900
Ernst Reuter High School, Berlin	Establishment of a vivarium for observing amphibians/reptiles etc. during biology lessons	4,700
Brodowin Elementary School, Berlin	Implementation of the new framework science curriculum; equipping dedicated science room	5,568
Querfurt High School, Bitterfeld site	Acquisition of ecological measuring equipment to complement work done by students at the school's own weather station	6,735
Bertha von Suttner Comprehensive School, Dormagen	Experience nanotechnology: Acquisition of experiment kits for research activities as part of science lessons	5,000
Bertha von Suttner Comprehensive School, Dormagen	Excursions to undertake biological/chemical and physical tests of water in the Rhine river and in lakes	5,000
Norbert High School, Knechtsteden, Dormagen site	Project work on electrochemistry: From galvanic elements to fuel cells	4,713
Leibniz High School, Dormagen	Excursions and project work for grades 8 – 13 to support the study of different ecosystems and develop models for the degradation activity of soil organisms	20,000
Rhine District Neuss, Authority for Schools, Culture and Sport, Neuss/Grevenbroich, Dormagen site	LabLive experiment course for school students: Out-of-school learning facility for scientific courses, science-based vacation courses for children staying at home	9,700
Norf High School, Neuss, Dormagen site	Acquisition of teaching materials for the food, organic and inorganic chemistry laboratory, grades 7 – 10	3,374
Norf High School, Neuss, Dormagen site	Cooperation with elementary schools: Science experiments carried out in the high school's laboratories with the younger children supervised by high school students	800
Barmen Comprehensive School, Wuppertal-Elberfeld site	Voluntary inter-grade project "Information Technology and Robotics for Girls"	5,040
University of Wuppertal, Wuppertal-Elberfeld site	SchulPOOL NRW: Establishment of a materials center where schools in the region can borrow materials for experiments	34,800
Carl Fuhlrott High School, Wuppertal-Elberfeld	Expansion of project work in the school garden, digital measurements in the school pond, webcam for observing birds, an insect hotel and bat garden	25,000
Wülfrath High School, Wuppertal-Elberfeld site	Chemistry project work on producing diesel fuel from fat used for deep-frying	3,594
Otto Hahn School, Hanau, Frankfurt am Main site	Biochemical Science Investigation: Molecular-biological research into the antiviral properties of plant substances, MINT initiative	7,500
Tannenberg School, Seeheim, Frankfurt am Main site	Establishment of a research workshop where children are introduced to science through play	2,000
Wiechs Elementary School, Schopfheim, Grenzach site	Establishment of a school laboratory to promote early learning in scientific subjects	2,000
Lobdeburg School, Jena	Establishment of a mobile laboratory focusing on water, electricity and optics to give children in grades 1 – 6 an opportunity to conduct scientific experiments	20,000
Max Planck Institute for Plant Breeding Research, Cologne, Leverkusen site	WissenschaftsScheune: In the "science stable," classes from different schools can learn about plant breeding, agriculture and biodiversity	48,000
Anna Freud School, Cologne, Leverkusen site	"Alle forschen selbstständig" (Everyone investigates independently): Establishment of a science laboratory for students with special needs	22,000
Dönhoffstrasse Community Elementary School, Leverkusen	Acquisition of experiment kits for physical and chemical phenomena to introduce elementary schoolchildren to science	3,000
Otto Hahn High School, Bergisch Gladbach, Leverkusen site	Establishment of an experimental laboratory for biology/chemistry/physics teaching outside the set curriculum and timetable	56,463
Montanus Junior High School, Leverkusen	Acquisition of equipment for science rooms to make learning more hands-on	20,000
August Dicke High School, Solingen, Leverkusen site	Establishment of classes specializing in science, improved equipment installed in science rooms	16,000
Leverkusen-Schlebusch Comprehensive School, Leverkusen	Project work by upper school on the topic of water: Study of the chemical/physical parameters of the Dhünn river, renaturation, wastewater treatment	20,548
Integrated Comprehensive School Paffrath, Bergisch Gladbach, Leverkusen site	Perfume: Analysis of fragrances and synthesis of own perfume using extraction equipment based on historical models	2,100
Don Bosco Elementary School, Langenfeld, Monheim site	Establishment of a children's laboratory for carrying out age-appropriate chemical and physical experiments	4,000
Lise Meitner Junior High School, Monheim	Construction of own photovoltaic facility where the power generated is made available to all students; introduction to climate protection and sustainability	3,630
Albert Schweitzer School, Krefeld	"Water is Our Life:" Students in the elective chemistry class undertake project work on the subject of water for a period of three to four months or more	9,500
Albert Einstein High School, Duisburg, Krefeld-Uerdingen site	Supporting students with an interest in science as part of specialist elective courses in biochemistry, and participation in the "Jugend forscht" youth science competition	5,055
St. Nikolaus School, Kalkar, Krefeld-Uerdingen site	"Jugend forscht" project on "Solving Commercial Wastewater Problems"	1,920
Stadtpark High School, Krefeld-Uerdingen	Two projects: "Study of Various Sugars" and "School Road Through the Universe"	8,000
C.A. Musäus Regular Public School, Weimar	Two projects: Acquisition of programmable Lego kits for the robotics club, and expansion and operation of a professional weather station in conjunction with Meteomedia	4,500

<b>Bayer Science &amp; Education Foundation: School Support Program</b>		(continued)
<b>Supported school</b>	<b>Project</b>	<b>Amount [EUR]</b>
Wormstedt Public Elementary School, Weimar site	Science experiments in the elementary school environment	3,000
Johann Heinrich Pestalozzi Elementary School, Weimar	Establishment of a science experiment workshop as part of the school's initiative to support particularly gifted students	6,000
<b>2009</b>		
Schiller Elementary School, Bergkamen	Hands-on projects: Chemistry club for the 3rd grade with volunteer from Bayer	2,500
Kamen Municipal High School, Bergkamen site	Installation of a large aquarium with animals and plants for the biological and chemical study of aquatic systems	10,000
Comenius High School, Datteln, Bergkamen site	Science teaching: High school students support elementary school children	1,500
Comenius High School, Datteln, Bergkamen site	Water analysis experiments	3,500
Marien High School, Werl, Bergkamen site	Establishment of an inter-class science club looking at moss ecosystems; cooperation with the University of Bielefeld	10,000
Pankratius School, Körbecke, Bergkamen site	Scientific experiment club for elementary school students	1,000
Carlo Schmid High School, Berlin	The school garden as a "green classroom:" Study of biocoenoses, water and soil samples	12,000
Friedrich Bayer High School, Berlin	Students introduce six bee colonies into the school garden with the aim of establishing a school company selling related products	6,200
School Environment Center Mitte, Berlin	Michels Umwelthäuschen (Michel's Eco-House): Contemporary, technology-based education on environmental and climate protection in the school garden	16,859
Heinrich Hertz High School, Berlin	Science club for elementary school children at the high school	7,000
Havelhöhe Waldorf School, Berlin	Study into the effect that climate change is having locally on aquatic microorganisms in the freshwater ecosystem	24,600
St. Franziskus Catholic School, Berlin	Chemistry club stages advanced chemistry shows as part of events such as the "Long Night of the Sciences" at the Humboldt University in Berlin	6,000
Wolfen-Bitterfeld Education Center	Project "BerufsOrientierungBerufsspezifisch:" Laboratory-based project aimed at familiarizing 9th grade students with various scientific careers	10,000
Brunsbüttel High School	"Basics of Biotechnology" project	21,100
Friedrichskoog Elementary School, Brunsbüttel site	Excursions to discover flora and fauna in the woods around the school	3,930
Marne High School, Brunsbüttel site	Establishment of an "astronomy mile" for use in physics lessons	8,000
Marne Elementary and Regional School, Brunsbüttel site	Introduction to alternative energies – construction of wind turbines and photovoltaic facilities in the school grounds	7,500
Alexander von Humboldt High School, Neuss, Dormagen site	High school students help elementary school children carry out experiments	7,100
Dormagen City Library	Expansion of the library's stock of science books	5,000
Else Lasker-Schüler Comprehensive School, Wuppertal-Elberfeld	Establishment of a special science class	14,706
Windrather Talschule Waldorf School, Wuppertal-Elberfeld site	Laboratory equipment for experiment-based teaching in an integrated class	16,500
Junior Uni Bergisches Land, Wuppertal	Science courses for all ages and learning abilities, plus support for gifted students	45,000
Tannenberg School, Seeheim, Frankfurt am Main site	Redesign of the school yard as a "world of science"	5,000
Theodor Heuss Junior High School, Preetz, Kiel site	Teaching materials for elective class in astronomy for grades 9 and 10	3,656
Schützenpark Vocational Schools, Kiel	Acquisition of software for controlling a single-arm robot in engineering/technology lessons	5,000
Elly Heuss Knapp Vocational School, Neumünster, Kiel site	Ballast water in ships: Methods for protecting bodies of water, biotechnology laboratory course	20,000
High School at the Hoffmann von Fallersleben School Center, Lütjenburg, Kiel site	Use of computer-controlled machine tools as part of engineering courses aimed at achieving a vocational qualification	6,000
Freiherr vom Stein Junior High School, Kiel	Establishment of an experiment room where students can learn to explore various scientific topics independently	3,615
An den Kaulen Community Elementary School, Cologne, Leverkusen site	Establishment of a research laboratory, printing of research exercise books, teacher training initiatives	2,500
Herkenrath Municipal Community Elementary School, Bergisch Gladbach, Leverkusen site	Establishment of a research laboratory as an independent learning facility in which students teach other students	8,000
Lise Meitner High School, Leverkusen	Elective science course for students in grades 7 – 9, practice-oriented lessons	10,000
Landrat Lucas High School, Leverkusen	Study of polystyrene and Styrofoam in chemistry, physics, technology, math/information technology classes	15,000
Practical chemical tuition, Alfter, Leverkusen site	Materials developed by a group of volunteer science teachers are used to provide further training for other science teachers	15,000
Otto Hahn High School, Monheim	Combined project work in biology and chemistry: Life forms, movement, nutrition and digestion of single-cell organisms	5,400
Michael Ende High School, Tönisvorst, Krefeld-Uerdingen site	Courses run by high school students to introduce elementary school pupils to experiments	2,260

<b>Bayer Science &amp; Education Foundation: School Support Program</b>		(continued)
<b>Supported school</b>	<b>Project</b>	<b>Amount [EUR]</b>
Lutherpark Elementary School, Duisburg, Krefeld-Uerdingen site	Acquisition of a mobile laboratory to carry out science experiments in various classes	3,200
Kaiserplatz Comprehensive School, Krefeld	Supplementary and elective science courses on the subject of dyes	5,700
Uerdingen Vocational School, Krefeld-Uerdingen	Vanilla or Vanillin?: Analytical experiments on the natural substance and its use in vanilla and vanillin sugar	15,000
Montessori Integrated School, Nohra, Weimar site	"Our Landscape Park:" Project work and learning about nature	3,200
<b>2010</b>		
Warstein High School, Bergkamen site	Experiment-based lessons on agroecology and microbiology	19,939
Overberg School, Fröndenberg, Bergkamen site	Establishment of a learning facility for experiment-based courses	3,000
St. Margaretha Elementary School, Warstein, Bergkamen site	Jim Knopf research club: Basic relationships in chemistry and physics	1,500
Langermann School for students with special educational needs, Dortmund, Bergkamen site	Training environmental experts: Project work in the school's own humid biotope	4,000
Diesterweg Elementary School, Kamen, Bergkamen site	Mobile laboratory for student experiments	5,000
Fröndenberg Comprehensive School, Bergkamen site	Establishment of an environmental container laboratory: Students teach other students during annual project weeks	10,000
Ellen Key School, Berlin	The molecular kitchen: The chemistry and physics of cooking	5,000
Heinrich Schliemann High School, Berlin	Putting schools under the microscope: An introduction to ecology	5,800
Liebfrauen Catholic School, Berlin	Establishment of a biochemical laboratory course on molecular genetics and pharmacology	4,682
Babelsberg Protestant Elementary School, Potsdam, Berlin site	Science projects on the four elements	3,000
TING School, Berlin	Tracking down the culprit: Turning our school into a forensic laboratory	7,000
Humboldt University, Berlin	Humboldt-Bayer-Mobile: School laboratory truck	100,000
Merseburg Cathedral High School, Bitterfeld site	Environmental analysis of air, soil and water at the Leuna chemical site 20 years after reunification	10,000
Bitterfeld-Wolfen Technology Center, Bitterfeld site	Tracking down genes: New courses in molecular genetics in the student laboratory	10,000
Kaiser Karl School, Itzehoe, Brunsbüttel site	Construction of a biotechnology learning laboratory focusing on natural antiviral agents	10,000
Gillbach School, Rommerskirchen, Dormagen site	Scientific experiments as part of elementary school teaching	4,000
Municipal Junior High School at the Dormagen Sports Park	Biochemical analysis of indigenous plants and their applications in pharmacy	6,000
Hermann Gmeiner School, Dormagen	Environmental education club: Analysis of soil samples and in-depth examination of the results using learning software	2,000
Geschwister Scholl High School, Pulheim, Dormagen site	"Green classroom:" Introduction to the water ecosystem, field studies in stream/meadow landscape	5,000
Friedrich von Saarwerden School, Zons, Dormagen site	Exploring technology: Bionics for elementary school children, cooperation with high school students	5,000
Raphael School, Dormagen	"Waldmeister" project: Studying woodlands from a biological perspective, including soil, air, flora and fauna	8,000
Leibniz High School, Dormagen	Sparking interest in engineering through experiments in electrical engineering and electronics	12,133
Am Haspel Vocational School, Wuppertal-Elberfeld	Introduction to working with RFID technology, robotics	1,400
Am Haspel Vocational School, Wuppertal-Elberfeld	Introduction to process automation in cooperation with the University of Wuppertal	15,900
Wuppertal-Vohwinkel Comprehensive School, Wuppertal-Elberfeld site	Nature and garden club: Construction of a pond in the school garden for teaching purposes	6,000
Wuppertal-Vohwinkel Comprehensive School, Wuppertal-Elberfeld site	Genetic fingerprints: Introduction to molecular genetics, inter-school project	4,257
Hackenbergs Community Elementary School, Remscheid, Wuppertal-Elberfeld site	Establishment of experiment corners in all classrooms and reconstruction of stations featured in the "Miniphänomena" experiment project for children	4,600
Haan-Gruiten Waldorf School, Wuppertal-Elberfeld site	Project work on the topic of dyes and light aimed at preparing students for future careers	8,000
Barmen Südwest High School, Wuppertal-Elberfeld site	Projects "Schlaumäuse on Tour" and "Stark für Kids:" Science project days by high school students for elementary school children	5,000
Wichlinghauser Strasse Municipal Catholic Elementary School, Wuppertal-Elberfeld	Science experiments in basic science lessons	1,650
Hans Gustav Röhr School, Ober-Ramstadt, Frankfurt am Main site	Life in the pond: Afternoon courses focused on experiments for elementary school children	1,600
Pestalozzi School, Kelkheim, Frankfurt am Main site	Researching microorganisms in the elementary school's wheelchair-accessible environment laboratory	4,000
Lindenfeld School, Schaafheim, Frankfurt am Main site	Establishment of a research workshop for the elementary school	5,600

## Bayer Science & Education Foundation: School Support Program

(continued)

Supported school	Project	Amount [EUR]
Ellerbeker School, Kiel	Scientific learning workshop for integrated classes with students with intellectual disabilities	7,000
Claus Rixen Elementary School, Altenholz, Kiel site	Establishment of research corners in all classrooms	6,000
Linden School, Grenzach	Project work to research modern sources of energy such as solar, wind and hydrogen power	1,042
Gertrud Luckner Junior High School, Rheinfeld, Grenzach site	Creation of an environmental map of the town: Students collect and evaluate measurement data about the town	10,800
Buttenberg School, Inzlingen, Grenzach site	Establishment of a club for science experiments, and teacher training initiatives	3,000
Lise Meitner High School, Grenzach	Climate/climate change: Students collect and evaluate weather data independently	2,250
Kant High School, Weil am Rhein, Grenzach site	Active pharmaceutical ingredients project group: Preparation for science competitions such as "Jugend forscht"	3,000
Grenzach-Wyhlen Junior High School	Experiment-based teaching on the topic of solar energy	1,992
Hebel School, Grenzach	Workshop days: Establishment of experiment corners in the elementary school	1,000
Maulburg Center for Youth Development, Grenzach site	Establishment of a central science laboratory for elementary schools in the surrounding area	8,000
Hölderlin Municipal High School, Cologne, Leverkusen site	Techniques for biochemical water analysis using the pond in the Mülheimer Stadtgarten gardens as a case study	8,478
Erzbischöfliche Marienschule High School in Opladen, Leverkusen	Experiment-based chemistry lessons in the afternoon	7,774
Essen-Borbeck Municipal Girls High School, Leverkusen site	Expansion of the established ROBERTA robot club with an additional focus on sensor technology and gathering measurement data	9,000
Neukronenberg Community High School, Leverkusen	Hands-on science learning stations for high school students	15,000
Nibelungenstrasse Community Elementary School, Cologne, Leverkusen site	Nibelungen kids get researching: Science laboratories for basic science teaching and for groups to carry out research in their free time	3,000
Herkenrath High School, Leverkusen site	Using experiments to learn about the environment: Establishment of a nature library and studies of ecosystems	15,000
International Chemistry Olympiad, Leverkusen	NRW Seminar 2010	12,321
Lise Meitner Junior High School, Monheim	Experiment-based teaching on nanotechnology	4,200
Friedrich Fröbel Community Elementary School, Langenfeld, Monheim site	Tracking down nature: Basic science teaching in elementary schools	4,000
Uerdingen Vocational School, Krefeld-Uerdingen site	Interdisciplinary project on the subject of enzymes	11,062
Erasmus von Rotterdam High School, Viersen, Krefeld-Uerdingen site	Introduction to molecular biology	2,500
Michael Ende High School, Tönisvorst, Krefeld-Uerdingen site	Experiment-based teaching on the subjects of water, air and energy as part of the MINT initiative	9,780

## Bayer Science & Education Foundation: Fellowship Program

Scholarship holders	Study project	Amount [EUR]
<b>Bayer scholarships</b>		
<b>2007</b>		
Alina Asafova, Microbiology and Molecular Biology student at Kazan State University, Russia	Period of research at the Justus Liebig University in Giessen: Investigating polyfunctional enzymes by the example of RNase from different bacteria in vivo and in vitro	2,900
Dominik Böke, Biology student at the Westfälische Wilhelms University in Münster, Germany	Degree thesis at the University of California, Berkeley, United States: Analysis of nuclear phosphoinositide metabolism using novel fluorescent probes and molecular genetics	5,980
Amalie Elisabeth Dick, Life Sciences student at Munich Technical University, Germany	Period of research at the University of Michigan, United States: Apoptosis-induced release, immunostimulatory and autoantigenic function of the human architectural chromatin protein DEK	8,500
Sarah Jakob, Mathematics student at the University of Bonn, Germany	Period of research at Copenhagen University, Denmark: Weak convergence of point processes on the metric space of counting measures and applications to the occurrence of patterns in DNA sequences	7,835
Johannes Simon Bartholomäus Leiner, Physics student at the University of Regensburg, Germany	Period of research at the London Centre for Nanotechnology: Macroscopic quantum phenomena in stacked Josephson junctions	5,200
Karen Linnemanstöns, Molecular Biology student at the Georg August University in Göttingen, Germany	Period of research at the Karolinska Institute, Sweden: Isolation and characterization of stem cells in glioblastoma multiforme	6,000

<b>Bayer Science &amp; Education Foundation: Fellowship Program</b>		(continued)
<b>Scholarship holders</b>	<b>Study project</b>	<b>Amount [EUR]</b>
Birgit Manno, Molecular Biology student at the Georg August University in Göttingen, Germany	Period of research at the Karolinska Institute, Sweden: Characterization of TRAPC, a novel activating receptor expressed on antigen presenting cells	5,700
Anja Mirenska, Molecular Biotechnology student at the Ruprecht Karl University in Heidelberg, Germany	Period of research at Newcastle University, United Kingdom: MRes degree in Medical and Molecular Biosciences	14,960
Anja Schillert, Biology and Biotechnology student at the Justus Liebig University in Giessen and the École Supérieure de Biotechnologie Strasbourg, France	Period of research at The Scripps Research Institute, San Diego, United States: A mouse model for PAR2 signaling in breast cancer	5,000
Torben Schüttfort, Engineering Physics student at Munich Technical University, Germany	Period of research at Oxford University, United Kingdom: Charge transfer from organic polymers on single-walled carbon nanotubes	6,300
Tobias Joachim Zimmermann, Chemistry student at the Eberhard Karls University in Tübingen, Germany	Degree thesis at Oxford University, United Kingdom: Benzyl acetones as potential kinase inhibitors	2,450
<b>2008</b>		
Anja Gärtner, Pharmacy student at the Ernst Moritz Arndt University in Greifswald, Germany	Degree thesis at Griffith University, Australia: CMP-sialic acid transporter structure elucidation, new points of application for drugs in tumor therapy	8,000
Cathleen Heil, Biomathematics student at the Dresden University of Technology, Germany	Research at the École Centrale Paris, France: Mathematical modeling of biological tissue	2,950
Sebastian Hogl, Molecular Biology student at the Ruprecht Karl University in Heidelberg, Germany	Masters' thesis at the University of Auckland, New Zealand: Effects of diabetes and copper(II)-selective chelator treatment on the expression of genes that regulate glutathione metabolism	3,000
Andreas Glöckner, Chemistry student at Brunswick University of Technology, Germany	Degree thesis at the University of Utah, United States: Early transition metal complexes containing cycloheptatrienyl and pentadienyl ligand systems	5,371
Marianne Mertens, Biotechnology student at RWTH Aachen University, Germany	Masters' thesis at The Scripps Research Institute in San Diego, United States: TMV and PVX, rod-shaped viral nanoparticles as tools for biomedical applications	4,300
Laura Ivan, Molecular Biology student at the University of Duisburg-Essen, Germany	Masters' thesis at the University of Colorado Health Sciences Center, United States: Hypoxic preconditioning, role of extracellular adenosine signaling in tissue adaptation	9,200
Sandra Schick, Biology student at the Johannes Gutenberg University in Mainz, Germany	Period of research at Johns Hopkins University in Baltimore, United States: Synthesis of transmembrane peptides	6,000
Annette Hellbach, Molecular Medicine student at the University of Erlangen-Nuremberg, Germany	Degree thesis at Stanford University, Hopkins Marine Station, United States: Structure, activity and innervation of the pacemaker regions of Botryllus schlosseri	8,000
Xiaoli Guo, Biology student at Utrecht University, the Netherlands	Period of research at the Ludwig Maximilian University in Munich, Germany: Pattern of sprout-target contacts between CST collaterals and propriospinal neurons following spinal cord injury in mice	3,500
Jana Hermes, Molecular Biology student at the Westfälische Wilhelms University in Münster, Germany	Masters' thesis at the Garvan Institute in Sydney, Australia: Visualizing the fate of tissue-specific self-reactive B cells	16,200
Carolin Barbara Bräuninger, Physics student at the Eberhard Karls University in Tübingen, Germany	Degree thesis at the Commissariat à l'Énergie Atomique in Saclay, France: Indirect observation of dark matter, antideuteron spectrum in the Minimal Dark Matter model	6,340
Tim Wegner, Physics student at Imperial College London, England	Masters' thesis at the Massachusetts Institute of Technology, United States: New architectures for 3D holographic displays using integrated optics	5,850
Melissa O'Brien, Biology student at Brunswick University of Technology, Germany	Period of research at the Institute of Neuroscience of the Chinese Academy of Sciences in Beijing, China: The effects of enriched rearing during early development of CA1 pyramidal neurons	6,000
Marília Torres Lopes Rauck, Chemical Engineering student at the Universidade de São Paulo, Brazil	Period of research at the University of Karlsruhe, Germany: Experimental studies and simulation of high-pressure nozzles	8,200
Lukas Dialer, Chemistry student at the Swiss Federal Institute of Technology Zurich, Switzerland	Period of research at the Shanghai Institute of Organic Chemistry, China: Synthetic studies toward antibiotic nocathiacin II	5,000
<b>2009</b>		
Malte Alf, Biology student at the Max Planck Research School Göttingen, Germany	Masters' thesis at the École Polytechnique Fédérale de Lausanne, Switzerland: High-field NMR spectroscopy / Metabolic profile of transient ischemia	2,250
Mehrpouya Balaghy Mobin, Molecular Biology student at the Westfälische Wilhelms University in Münster, Germany	Period of research at the Howard Hughes Medical Institute, United States: The gene regulation mechanism of RNA interference (RNAi) as part of biomedical cancer therapy	4,500
Jana Cebulla, Physics student at the Martin Luther University in Halle-Wittenberg, Germany	Degree thesis at the Johns Hopkins University School of Medicine, United States: Multi-scale imaging of angiogenesis in breast cancer	9,500
Pedro de Souza Rocha Simonini, Molecular Biology student at the École Supérieure de Biotechnologie Strasbourg, France	PhD at the German Cancer Research Center in Heidelberg, Germany: Identification and functional characterization of microRNAs regulating ER-alpha signaling in breast cancer	11,500

<b>Bayer Science &amp; Education Foundation: Fellowship Program</b>		(continued)
<b>Scholarship holders</b>	<b>Study project</b>	<b>Amount [EUR]</b>
Pascal Ellerbrock, Chemistry student at the Albert Ludwig University in Freiburg, Germany	Period of research at Stanford University, United States: Synthesis potential in organic chemistry (e.g. asymmetric catalysis)	5,228
Nora Kory, Molecular Biology student at the Ludwig Maximilian University in Munich, Germany	Masters' thesis at the Whitehead Institute for Biomedical Research, United States: Identification of new regulators in the amino-acid-induced activation of mTORC1	6,000
David Labonte, Bionics student at Bremen University of Applied Sciences, Germany	Period of research at Cambridge University, United Kingdom: Polymer coatings as a new form of insect-repellent surface	4,250
Lukas Lercher, Chemistry student at the Ludwig Maximilian University in Munich, Germany	Period of research at the Technion – Israel Institute of Technology: Asymmetric construction of quaternary carbon centers	7,500
Bernadette Mekker, Molecular Biology student at the Georg August University in Göttingen, Germany	Masters' thesis at the Karolinska Institute, Sweden: Mechanisms of tumor angiogenesis	1,120
Frank Reichenbach, Biochemistry student at the Eberhard Karls University in Tübingen, Germany	Period of research at Imperial College London, United Kingdom: Characterization of new candidates for the sensitization of therapy-resistant tumor cells to TRAIL-induced apoptosis	1,800
Vera Schnepf, Molecular Biology student at the University of Stuttgart, Germany	Research at the Scottish Crop Research Institute, United Kingdom: Identification of a silencing suppressor of raspberry bushy dwarf virus	4,175
Kathrin Schwinghammer, Biochemistry student at the Ludwig Maximilian University in Munich, Germany	Masters' thesis at Rockefeller University, United States: Functional analysis of the Salmonella T3SS effector protein SseJ	6,550
Tingting Sun, Molecular Biology student at Ocean University, China	Masters' thesis at the Alfred Wegener Institute for Polar and Marine Research, Germany: Impact of global warming and ocean acidification on marine life – Acclimation capabilities of the ion regulatory system in Antarctic fish	5,950
Foad Tehrani Najafian, Chemistry student at Damascus University, Syria	Masters' thesis at the University of Siegen, Germany: Synthesis of organic compounds	3,700
Silvan Türkcan, Physics student at Munich Technical University, Germany	PhD at the École Polytechnique, France: Study of toxin-cell interaction using single molecule microscopy with nanoparticles	6,000
Katharina Weber, Chemistry student at the Westfälische Wilhelms University in Münster, Germany	Period of research at the Université Pierre et Marie Curie, France: Hydrogen donor synthesis for radical reactions by combining borane with N-heterocyclic carbenes	2,050
Kerstin Wennhold, Biology student at the University of Cologne, Germany	Masters' thesis at the Dana Farber Cancer Institute, United States: Exploitation of antigen-specific tolerance mechanisms in the non-obese diabetic (NOD) mouse model of insulin-dependent diabetes mellitus	8,000
Jens Willwacher, Chemistry student at the Westfälische Wilhelms University in Münster, Germany	Period of research at the Massachusetts Institute of Technology, United States: New synthesis strategy for the stereoselective structuring of 1,6 dihydropyrimidines	5,100
<b>Carl Duisberg Scholarships</b>		
<b>2007</b>		
Volker Brand, Medical student at Munich Technical University, Germany	Practical year in Ireland, China, Switzerland and the United States	12,450
Uta Bultmann, Medical student at the University of Duisburg-Essen, Germany	Clinical elective in pediatrics at Kenyatta National Hospital, Nairobi, Kenya	2,650
Marc Aurel Busche, Medical student at the Ludwig Maximilian University in Munich, Germany	One third of practical year (internal medicine) at the University of Chicago, Pritzker School of Medicine, United States	4,300
Bianca Hofmann, Medical student at the University of Hamburg, Germany	Period of research at The Scripps Research Institute, San Diego, United States: Molecular research into cellular regulatory mechanisms in cancer cells	6,100
Elina Marie Hünig, Medical student at the Julius Maximilian University in Würzburg, Germany	One third of practical year (internal medicine) at Tygerberg Hospital in Cape Town, South Africa	2,836
Judith Kempfle, Medical student at the University of Ulm, Germany	Period of research at Harvard University, Harvard Medical School, United States: Role of Pax2 in differentiation of auditory neurons from inner ear stem cells	19,000
Holger Meinicke, Medical student at the Humboldt University in Berlin, Germany	One third of practical year (surgery) at the University of Sheffield, United Kingdom	3,050
Michael Rasper, Medical student at Munich Technical University, Germany	Clinical elective in neuro-oncology at the Dana Farber Cancer Institute, Boston, United States	1,000
Matthias Schmidt, Medical student at the Albert Ludwig University in Freiburg, Germany	Clinical elective abroad at Kathmandu Model Hospital in Nepal	1,153
Dennis Wolf, Medical student at the Albert Ludwig University in Freiburg, Germany	Period of research at the Baker Heart Research Institute, Australia: Descriptive and functional characterization of the CD40L-Mac-1 interaction in inflammatory processes	9,150
<b>2008</b>		
Elena Robinson, Medical student at the Albert Ludwig University in Freiburg, Germany	Clinical elective in the Hospital Arco Iris, Bolivia: Supporting medical care for socially disadvantaged children	3,650
Andrea Vuck, Medical student at the Albert Ludwig University in Freiburg, Germany	Practical year in the Memorial Sloan-Kettering Cancer Center, United States: Ward work and diagnosis techniques in nephrology and oncology	1,600
Marie Jensen, Medical student at the Albert Ludwig University in Freiburg, Germany	Practical year at Semmelweis University in Budapest, Hungary: Gynecology and obstetrics at the Semmelweis women's clinic in a socially deprived area of Budapest	1,920
Hannes Leischner, Medical student at the University of Hamburg, Germany	Practical year at the University of Mumbai, India, and Shanghai Jiaotong University, China: Diagnostic imaging, insights into traditional medicine in India and China	2,800

<b>Bayer Science &amp; Education Foundation: Fellowship Program</b>		(continued)
<b>Scholarship holders</b>	<b>Study project</b>	<b>Amount [EUR]</b>
Ruth Eichner, Medical student at Munich Technical University, Germany	Masters' thesis at the Université Paul Sabatier, France: Research into cancer biology and oncology	9,400
<b>2009</b>		
Christina Berchtold, Medical student at the Ludwig Maximilian University in Munich, Germany	Practical year at the University of Sydney, Australia: Reconstructive and plastic surgery	4,500
Konrad Buscher, Medical student at the Charité University Hospital in Berlin, Germany	Practical year at the Instituto Superior de Ciencias Medicas, Cuba	4,300
Nana-Maria Heida, Medical student at the Georg August University in Göttingen, Germany	Practical year at the Lying-In Hospital of the University of Chicago, United States	3,100
Benjamin Kansy, Medical student at the Eberhard Karls University in Tübingen, Germany	Practical year in the Massachusetts Eye and Ear Infirmary of Harvard Medical School, United States	2,000
Christian Schaaf, Medical student at the Ruprecht Karl University in Heidelberg, Germany	Practical year at Oxford University, United Kingdom: Pathophysiological relationships	1,850
Nicola Schöppl, Medical student at the University of Regensburg, Germany	Clinical elective in the ELCT Mubulu Diocese Lutheran Hospital Haydom, Tanzania: Gynecology and obstetrics in tropical rural Africa	2,900
Thilo Witsch, Medical student at the Justus Liebig University in Giessen, Germany	Practical year at the University of California, San Diego School of Medicine, United States: Pediatrics	5,800
<b>Kurt Hansen Scholarships</b>		
<b>2008</b>		
Peter Nelle, Biology student (teacher training) at the Westfälische Wilhelms University in Münster, Germany	Period of research at Queens University Belfast, United Kingdom: Engaging students in science: How can we investigate foodwebs?	10,900
"Cologne Model" at the University of Cologne	Support for "Chemie entdecken" (Discover chemistry) competition for school students and for initiatives run by the science teacher training section of the University of Cologne	11,000
<b>2009</b>		
Friederike Bronswick, Biology student (teacher training) at the University of Wuppertal, Germany	Research at London Metropolitan University, United Kingdom: Microbial physiology, bioethics and conservation of biodiversity	9,000
"Cologne Model" at the University of Cologne	Support for "Chemie entdecken" (Discover chemistry) competition for school students and for initiatives run by the science teacher training section of the University of Cologne	8,000

<b>Bayer Science &amp; Education Foundation: Climate Fellows</b>		<b>Amount [EUR]</b>
<b>School scholarship holders</b>	<b>Program</b>	
<b>2008</b>		
Martin Rohbeck, student at St. Wolfheim High School in Schwalmatal, 8th grade	Bayer Climate Fellow	4,127
Moritz Winkler, student at Ulrich von Hutten High School in Berlin, 10th grade	Bayer Climate Fellow	4,127
Florian Schober, student at Johannes Gutenberg High School in Waldkirchen, 11th grade	Bayer Climate Fellow	4,127
Leonie Brüggerwerth, student at the Märkisches Viertel Waldorf School in Berlin, 8th grade	Bayer Climate Fellow	4,127
Imke Spatz, student at Lise Meitner High School in Leverkusen, 8th grade	Bayer Climate Fellow	4,127
<b>2009</b>		
Annika Mester, student at Marien High School in Werl, 8th grade	Bayer Climate Fellow	4,645
Maximilian Geisreiter, student at Odenthal High School, 8th grade	Bayer Climate Fellow	4,645
Lisa Thiel, student at August Dicke High School in Solingen, 9th grade	Bayer Climate Fellow	4,645
Kilian Ackermann, student at Michael Ende High School in Tönisvorst, 10th grade	Bayer Climate Fellow	4,645
Marie Tegethoff, student at Humboldt High School in Berlin, 8th grade	Bayer Climate Fellow	4,645
Tilman Pfeffer, student at Friedrich Engels High School in Berlin, 9th grade	Bayer Climate Fellow	4,645
Lena Schubbert, student at Freiherr vom Stein High School in Leverkusen, 9th grade	Bayer Climate Fellow	4,645

## Bayer Science & Education Foundation: Climate Fellows

(continued)

School scholarship holders	Program	Amount [EUR]
<b>2010</b>		
Shannon Doyle, student at Humboldt High School in Berlin, 10th grade	Bayer Climate Fellow	5,572
Philipp Stenkamp, student at Konrad Adenauer High School in Langenfeld, 10th grade	Bayer Climate Fellow	5,572
Lea Valeria Daverkausen-Fischer, student at Kreuzgasse High School in Cologne, 11th grade	Bayer Climate Fellow	5,572
Malin Hannah Eh, student at St. George's: The English International School in Cologne, 10th grade	Bayer Climate Fellow	5,572
Lisa Katharina Schumacher, student at Essen-Borbeck Girls High School, 10th grade	Bayer Climate Fellow	5,572
Kai Meinerz, student at August Dicke High School in Solingen, 9th grade	Bayer Climate Fellow	5,572
Nicole Schäferhoff, student at Bergkamen Municipal High School, 8th grade	Bayer Climate Fellow/Winner of the Bergkamen Climate Competition	–
Maximilian Hohm, student at Bergkamen Municipal High School, 8th grade	Bayer Climate Fellow/Winner of the Bergkamen Climate Competition	–

## Bayer Science & Education Foundation: Scientific Awards

Award winners	Award-winning research work	Amount [EUR]
<b>Otto Bayer Award</b>		
2008: Prof. Thomas Carell, Faculty of Chemistry and Pharmacy, Ludwig Maximilian University in Munich, Germany	Pioneering contribution to our understanding of how damage is caused to DNA and the DNA repair process	50,000
2010: Prof. Detlef Weigel, Max Planck Institute for Developmental Biology in Tübingen, Germany	Pioneering contribution to our understanding of the molecular-biological principles governing the variability of plants	75,000
<b>Hansen Family Award</b>		
2007: Prof. Magdalena Götz, Institute for Stem Cell Research in Neuherberg, Germany	Pioneering work in the field of neurobiology and stem cell research	50,000
2009: Prof. Patrick Cramer, Faculty of Biochemistry, Ludwig Maximilian University in Munich, Germany	Pioneering work on the molecular mechanisms of gene transcription	50,000
<b>Bayer Climate Award</b>		
2008: Prof. Eberhard Jochem, Fraunhofer Institute for Systems and Innovation Research in Karlsruhe, Germany	Pioneering technological and economic work on efficient energy usage in industrialized countries	50,000
2010: Prof. Peter Lemke, Alfred Wegener Institute for Polar and Marine Research (AWI) in Bremerhaven and Institute for Environmental Physics, University of Bremen, Germany	Pioneering work on the relationship between sea ice and climate change	50,000
<b>Bayer Early Excellence in Science Award</b>		
2009 in the category materials: Dr. Jürgen Groll, RWTH Aachen, Germany	Development of new hydrogels based on biocompatible polymers	10,000
2009 in the category chemistry: Dr. Tobias Ritter, Harvard University, United States	Detailed mechanistic studies of fluorination reactions	10,000
2009 in the category biology: Dr. Noriyuki Nishimura, University of California, San Diego, United States	Identification and characterization of specific stress hormone receptors in plants	10,000

## Bayer Cares Foundation: Volunteering Program

Volunteers	Project	Amount [EUR]
<b>2007</b>		
Dr. Alexander Karwot, Bayer employee	Extending the play area of the St. Josef Catholic Daycare Center, Bitterfeld	5,295
Johann Gerhard Clemens, Bayer retiree	Printing song books for people with dementia to help the St. Augustinus Retirement Home, Dormagen	454
Cemile Karagöz, Bayer employee	Homework tutoring and application training for students at the Secondary Modern and Municipal Junior High Schools in Dormagen	5,000
Michael Römer, Bayer employee	Respite weekend for children with cancer via the Wuppertal-based "Initiative für krebskranke Kinder e.V." (initiative for children suffering from cancer)	5,000
Rolf Janyga, Bayer employee	Contact point for people suffering from addictions, in conjunction with the Un-Abhängig e.V. society, Leverkusen	5,000
Walter Peffgen	Training volunteer "financial coaches" to provide debt advice, in cooperation with the Protestant Church and the Diakonisches Werk Leverkusen (part of the social services arm of the Protestant Church)	5,000
Petra Rosseidtscher	Establishment of a consulting center and support for disabled children in conjunction with the organization "Mit Profil e.V.," Leverkusen	4,000
Frank Stein	Establishment of a meeting place for the bereaved at Reuschenberg Cemetery, Leverkusen	5,000
Bernd Setzer and Dr. Manfred Martin, Bayer retirees	"KlexSe" initiative: Children carry out experiments with the help of "senior experts," in conjunction with various daycare centers in the Stammheim area of Cologne, Leverkusen site	3,200
Brigitte Forst	Qualified homework tutoring for children with a migrant background by volunteers with experience of migration, Leverkusen	4,900
<b>2008</b>		
Sven Stein, Bayer employee	Science experiments at the Mikado kindergarten, Bergkamen	1,935
Manja Sacher, Bayer employee	Establishment of a sensory/relaxation room for children at a social-pediatric center with the aid of support organization "SPZ-Sternschnuppe e.V.," Berlin	5,343
Hartmut Buchwald, Bayer retiree	"The magic of physics:" Physics clubs run by senior experts at elementary schools in Berlin	3,000
Annette Friedrich, Bayer employee	Self-help group for parents of children with malformations of the esophagus, organized via the regional group KEKS Berlin	4,000
Margret Oehne	Sailing group for young people from socially disadvantaged backgrounds organized via the school club at Heinrich Heine High School, Bitterfeld	5,000
Achim Scharke, Bayer retiree	Training volunteer conflict mediators via the Senior Partners in Schools initiative at various schools in Wuppertal, Neuss and Dormagen	5,000
Dr. Jörg Christmann, Bayer employee	Establishment and maintenance of a water experiment area at the Dormagen Outdoor Kindergarten	1,431
Dieter Geller, Bayer employee	Construction of a hut for the Waldjugend youth and nature conservation organization, Dormagen	500
Christel Lettner, Bayer retiree	Language and math games organized parallel to standard classwork as part of a class sponsorship project at Yorckstrasse Elementary School, Wuppertal-Elberfeld	477
Michael Römer, Bayer employee	Summer leisure time for children with cancer whose families have limited financial resources; organized in conjunction with the Wuppertal-based "Initiative für krebskranke Kinder e.V." (initiative for children suffering from cancer)	5,000
Fabian Linde	Teddy hospital for small children set up with the help of the organization team of the University of Düsseldorf, Leverkusen site	1,078
Günter Huber, Bayer retiree	Training kitchen staff at the Casa Santiago children's home in Nicaragua in cooperation with the Senior Experts Service, Leverkusen	1,990
Dr. Michael Lange, Bayer retiree	Science club run by a senior expert at the Community Elementary School in Dierath, Leverkusen site	2,000
Christiane Röger-Fröhlich, Bayer employee	Conversion and renovation of the Knirpse kindergarten by the parents themselves, Leverkusen	5,000
Wilhelm-Hendrik Lauritsch, Bayer employee	Training people with disabilities in running, organized in cooperation with the Makrolon Runners, Krefeld-Uerdingen	3,400
Michael Kasper	Expansion of an adventure playground at the Café Conti youth club, Weimar	5,000
René Woithe, Bayer employee	Redesign and modernization of the school yard at Kromsdorf Elementary School, Weimar site	4,700
<b>2009</b>		
Ana Ramírez de Meza, Bayer employee	Support for the "Give and Receive" aid project set up after drought led to crop failures, Guatemala	4,000
Febe Priscila Avila Dominguez, Bayer employee	Extension and renovation of a school building in San Antonio, Guatemala	5,000
Carlos Maldonado, Bayer employee	Acquisition of experiment materials for a science-based play bus for children, Colombia	5,000
Fernando López, Bayer employee	Construction of two stable wooden houses for poor families in Mexico City in conjunction with Un Techo Para Mi Pais (a roof for my country), Mexico	3,000
Francisco Mitrano, Bayer employee	Establishment of gardens to help poor families support themselves, undertaken in conjunction with the Ministerio de Salud Pública, Uruguay	4,000
Antonio Alvarez, Bayer employee	Providing support for needy children in institutions in conjunction with Casa Hogar, Uruguay	2,000
Beate Tebbe, Bayer retiree	Support for a children's history project in the Oberaden Roman camp in conjunction with Bergkamen City Museum	2,500
Uwe Wittenberg, Bayer employee	Voluntary operation of stage technology at the Werne children's open-air theater, Bergkamen site	3,000
Uwe Wittenberg, Bayer employee	Acting workshops for children and young people at the Werne open-air theater, Bergkamen site	4,000

## Bayer Cares Foundation: Volunteering Program

(continued)

Volunteers	Project	Amount [EUR]
Cimbaly Cirkel, Bayer employee	Science experiment club at Schiller Elementary School, Bergkamen	2,500
Renate Schwerbrock, Bayer employee	Riding therapy for disabled children at the "Verein für Reittherapie von Behinderten e.V." (Riding therapy for the disabled association), Bergkamen	3,000
Axel Macher, Bayer employee	Design of an "adventure hill" for the Katharina von Bora children's daycare center, Bergkamen	5,000
Dr. Helmut Hoffmann	Project to help children learn how the human body and senses work, Vineta Elementary School, Berlin	1,000
Hartmut Buchwald, Bayer retiree	"The magic of physics:" Physics clubs run by senior experts at elementary schools in Berlin	1,000
Jessica Barth, Bayer employee	Education patrons for students at high schools in Berlin in conjunction with the Diakonisches Werk Berlin-Brandenburg e.V. (part of the social services arm of the Protestant church)	3,000
Carola Niczko	Establishment of an art school for gifted children and young people, staffed by volunteers and organized via the Ernst Thronicke Foundation, Bitterfeld	3,500
Siegfried Baumann	Support for various initiatives for children and young people from socially disadvantaged families, organized through the Südseitentreff youth club in Brunsbüttel	3,500
Wolfram von Langenthal, Bayer retiree	Establishment of a relaxation/sensory facility for the emotional support and terminal care of people with dementia in the retirement home run by the Johanniter Foundation in Brauweiler, Dormagen	2,000
Achim Scharte, Bayer retiree	Training volunteers to act as conflict mediators in schools, Dormagen	3,000
Cemile Karagöz, Bayer employee	Homework tutoring and application training for students at the "Hauptschule und Städtischen Realschule" in Dormagen	3,000
Ulrike Bewersdorf, Bayer employee	Painting course for children at the Bertha von Suttner High School, Dormagen	300
Norbert Dröger, Bayer employee	Computer club for elementary school children at the Rainbow School, Dormagen	2,000
Gürkan Bora, Bayer employee	Video projection equipment for the educational project "Vom Schläger zum Schlichter" (From fighter to mediator) in cooperation with the Turkish youth association "Türkische Jugend," Dormagen	3,000
Elisabeth Schmidt-Franke, Bayer employee	Science club at Corneliusstrasse Catholic Elementary School, Wuppertal-Elberfeld	1,500
Karl-Georg Waldinger	Extension of a practice room for school bands through the youth and culture organization "Verein für Jugend & Kultur e.V.," Wuppertal-Elberfeld	2,500
Frank Wagner, Bayer employee	Establishment of a meeting place for families with children with rheumatoid disorders in the Cologne region. Organized in conjunction with the "Bundesverband zur Förderung rheumatologisch erkrankter Kinder" (German national association for the support of children with rheumatoid disorders), Leverkusen	3,790
Dr. Michael Baum, Bayer employee	Construction of an outdoor water area for play and experimentation at the "Rhine Pirates" kindergarten, Leverkusen	4,850
Marlies Enk, Bayer retiree	Media workshop for children and young people at the Don Bosco Club in Cologne-Mülheim, Leverkusen site	3,000
Marlies Enk, Bayer retiree	Establishment of a funding system for the Kalanki English Medium School in Kathmandu, Nepal, in cooperation with the Senior Experts Service, Leverkusen	580
Dieter Muhl, Bayer retiree	Computer courses for the elderly via the self-help group "Buchheimer Selbsthilfe e.V.," Leverkusen site	1,260
Wilhelm Schlüter, Bayer retiree	Training for volunteer debt advisors via the "Diakonisches Werk des Kirchenkreises welfare association," Leverkusen	3,000
Manfred Link, Bayer retiree	Establishment of a walking and education trail at Castle Berge in cooperation with the countryside and history organization "Landschaft und Geschichte e.V."	3,500
Jörg Esser, Bayer retiree	Transport and construction of a professional container-style kitchen for a youth camp in France in conjunction with the "Jugendförderung St. Antonius Leverkusen e.V." youth project	4,000
René Poloczek and Heike Maniatis, Bayer employees	Establishment of a bee-keeping club at the Marienschule High School in Opladen, Leverkusen	450
Ulrich Schmalstieg, Bayer employee	Basic bicycle repair course for children and young people in conjunction with the Schöne Aussicht youth and citizens' center, Leverkusen	1,600
Monika Migge, Bayer employee	Expansion of a contact and advice center at Café Mittendrin in Cologne-Dünnwald, Leverkusen site	1,000
Michael Traving, Bayer employee	Construction of a play area for children under 3 years of age at the Sterntaler Burscheid integrative center, Leverkusen	4,650
Rosemarie Weber, Bayer retiree	Support for patients at the St. Remigius Hospital, Leverkusen	5,000
Dr. Tatjana Dullau, Bayer employee	Chemistry club at Don Bosco Elementary School, Leverkusen	1,200
Dr. Jens Peter Joschek and Dr. Katrin Joschek, Bayer employees	Science-based initiatives at the St. Hubertus Catholic children's daycare center in Cologne, Leverkusen site	1,300
Ingrid Fürst	Reading and language development for 4- to 6-year-olds at the "Die wilden Füchse" family center in Cologne, Leverkusen site	750
Dr. Alexander Moscho, Bayer employee	Support for the Christmas tree campaign for children at the Mission for Indigent Kids in conjunction with Nazareth House, Leverkusen	1,500
Dr. Mark Jean Gnoth, Bayer employee	Experiment course "Little researchers discover science" for children at the Montessori Kinderhaus Mettmann e.V., Leverkusen site	3,253
Herbert Magerstedt, Bayer retiree	Youth theater group at the youth theater of Grafschafter Bühne Moers e.V., Krefeld-Uerdingen site	2,000
Andrea Reuter	Expansion of the Mündelheimer Strasse playground, Krefeld-Uerdingen	3,200
Sigrun von Rabenau	Patchwork club: Creative use of textiles at St. Nikolaus High School in Kalkar, Krefeld-Uerdingen site	900
Torsten Fochler, Bayer employee	Equipment for the THW youth club premises in Kempen, Krefeld-Uerdingen site	3,000

## Bayer Cares Foundation: Volunteering Program

(continued)

Volunteers	Project	Amount [EUR]
Thomas Käbisch, Bayer employee	Vacation activities for children from socially disadvantaged families, organized in conjunction with "Ökumenische Kinder- und Jugendarbeit Krefeld-Oppum," an ecumenical organization for children and young people, Krefeld-Uerdingen site	3,000
Heike Becher	Renovation of the playground at Milda Municipal Elementary School in Buchfart, Weimar site	5,000
<b>2010</b>		
Miguel Angel Piedrasanta, Bayer retiree	Support for the "Smile" project for orphaned children in conjunction with Camp New Horizons, Guatemala	3,000
Lars Mühle, Bayer employee	Getting to grips with technology: Youth project at helpers' association "THW-Helfervereinigung Kamen-Bergkamen e.V.," Bergkamen site	4,990
Ralf Buckenauer and Klaus-Peter Hartmann, Bayer employees	Rescue Camp in Oberhavel: Leisure activities for young people combined with lifeguard training; organized in conjunction with the DLRG Berlin-Brandenburg lifeguard association	2,600
Jessica Barth, Bayer employee	Career guidance project as part of the "Ausbildungsbrücke" initiative of Diakonisches Werk Berlin-Brandenburg e.V.	3,000
Klaus Wendlandt	Acquisition of training equipment for the "Berliner Seniorteleson" helpline for the elderly run by the German Humanist Association, Berlin	2,000
Dr. Helmut Hoffmann	Acquisition of materials for the "Art and Medicine: Soil as a Habitat" project at Charlie Chaplin Elementary School, Berlin	3,000
Christiane Keins, Bayer employee	Training volunteers for telephone crisis and support lines, Berlin	3,500
Dr. Jochen Schmidberger, Bayer employee	Creation of Novaesium regional scout/guide group in Dormagen, North Rhine-Westphalia branch of the German Association of Guides and Scouts, Dormagen	1,000
Claudia Heimer	Design and acquisition of an info stand for parents' project for children with Type 1 diabetes, organized by the "Elterninitiative diabetischer Kinder und Jugendlicher e.V.," Dormagen	850
Dieter Zurek, Bayer retiree	Physics club run by a senior expert at the Herzogstrasse Community Elementary School in Opladen, Leverkusen	2,000
Dr. Adolf Staffe, Bayer retiree	Introduction of a bar code scanner system to improve the distribution of food at the "Leverkusener Tafel e.V." project	1,980
Heide-Rose Grenner and Dr. Angela Lockhoff, Bayer employees	Refurbishment of kitchen to provide lunches for children participating in homework groups organized by the Leverkusen-Wiesdorf Protestant church diocese	980
Dr. Klaus Koch, Bayer retiree	Support for a project aimed at improving the quality of food in Togo in cooperation with the Senior Expert Service, Leverkusen	3,600
David Gaiowski, Bayer employee	Renovation of a trailer to provide nature study facilities for schools and children's daycare centers in conjunction with the Heupferd adventure garden, Frankfurt am Main	5,000
Björn Schüppen, Bayer employee	Renovation of kitchen facilities for the "Fit and healthy" program: Provision of fresh food in the Area51 youth center, Krefeld-Uerdingen	3,000
Wilhelm-Hendrik Lauritsch, Bayer employee	Running and movement for children aged four to six in cooperation with the Makrolon runners, Krefeld-Uerdingen	2,500
Dirk Wetzell	Acquisition and construction of a bird's nest swing for the An De Welt playground, Krefeld-Uerdingen	1,500

## Bayer Cares Foundation: Disaster Aid

Natural disaster	Aid project	Amount [EUR]
Fires in Greece	Reconstruction of outdoor facilities at a health center in Olympia and support for the rebuilding of an elementary school in Oleni, Western Peloponnese	150,000
Earthquake in Sichuan, China	Provision of containers for use as teaching facilities, health centers and accommodation on the campus of Sichuan Technology and Business College	817,189
Earthquake in Haiti	Work to transform a Caritas health station into a health center in Léogâne to provide medical care to 30,000 people	350,000

## Bayer Cares Foundation: Aspirin Social Award

Award winners	Award-winning social work	Amount [EUR]
<b>2010</b>		
1st prize: Trauerland e.V., Bremen and Oldenburg	Grief counseling for children who have experienced the death of a family member	15,000
2nd prize: Ambulante Sozialpädagogik Charlottenburg initiative	Help for children with parents suffering from mental health problems	10,000
3rd prize: Junge Helden e.V., Berlin	Organ donation initiative	5,000
Audience prize: Deutscher Kinderhospizverein	Supporting terminally ill children and their families	5,000

## Bayer USA Foundation: Overview of key projects

Recipient	Project	Amount [USD]
<b>2007</b>		
Yale University	Bayer scholarship	150,000
Carnegie-Mellon University	Support for research and teaching	112,321
West Virginia University Foundation	Bayer scholars in the field of extrusion compounding	76,320
Duquesne University	Funding for the School of Natural and Environmental Sciences scholarship/internship program	20,000
Biotech Partners	Support for scientific projects	50,000
ASSET Inc.	Support for science education	135,000
Pennsylvania State University	Intern programs for Bachelor and graduate students	100,000
Kansas City Area Life Sciences Institute	Support for science education reform program	50,000
National Arbor Day Foundation	Support for UNEP's Billion Tree Campaign	105,000
Robert Morris University	Bayer Center for Nonprofit Management and Bayer scholarship	150,000
Senator John Heinz Pittsburgh Regional History Center	Support for "Pittsburgh: A Tradition of Innovation"	25,000
United Way of Greater Kansas City	Support for United Way Kansas City, social projects	42,498
National Merit Scholarship Corporation	Bayer's annual contribution for merit scholarships	30,020
CDS International, Inc.	Internships and study tours in renewable energy for Americans	15,000
FFA	Support for educational programs	50,000
Massachusetts Institute of Technology (MIT)	Bayer professorship and Bayer scholarship for graduate students	100,000
Food Bank of Central & Eastern NC	Lunch program for school students from low-income families	50,000
August Wilson Center for African American Culture	Donation	25,000
American Chemical Society	Expansion of SEED project in Houston and two "Green Chemistry" teacher workshops	83,000
RiverQuest	Environmental sustainability programs for school students	33,350
Agronomic Science Foundation	Support for Smithsonian soils exhibit and educational programs	100,000
NC Museum of Life and Science	Support for Bayer insectarium and outdoor classroom	31,000
Liberty Science Center	Support for the LSC Electronic Field Trip Program	35,000
<b>2008</b>		
United Way of Allegheny County	Support for campaign by United Way, social projects	226,331
RiverQuest	Environmental sustainability programs for school students	11,445
August Wilson Center for African American Culture	Donation	25,000
Carnegie-Mellon University	Bayer scholarships for graduate students in chemical engineering and chemistry	134,533
Robert Morris University	Bayer Center for Nonprofit Management and Bayer scholarship	150,000
United Way of Allegheny County	Support for United Way, social projects	25,000
Triangle United Way	Support for United Way, social projects	97,430
ASSET Inc.	Science education funding	135,000
Carnegie Museums of Pittsburgh	Funding for science programs:	65,000
Kansas City Area Life Sciences Institute	"Children, Teens and the Environment" and "CAUSE Kiosk"	50,000
West Virginia University Foundation	Support for science education reform program	76,320
Duquesne University	Bayer scholars in the field of extrusion compounding	40,000
Biotech Partners	Scholarships and internships at the School of Natural and Environmental Sciences	50,000
CDS International, Inc.	Support for science education	15,000
Pennsylvania State University	Internships and international study tours	100,000
MESA (Mathematics Engineering Science Achievement)	Intern programs for Bachelor and graduate students	93,000
United Way of Greater Kansas City	Establishment and upkeep of a MESA center in the East Bay region of California	39,453
Ethos, Inc.	Support for United Way Kansas City, social projects	64,000
Multiple Sclerosis Society of America	Funding for "Science to Go" program	100,000
Inalex Communications	Program to support people with multiple sclerosis	25,000

## Bayer USA Foundation: Overview of key projects

(continued)

Recipient	Project	Amount [USD]
New England Hemophilia Association	Program to improve the quality of life of hemophilia patients	30,000
Patient Services Inc.	Support for patient education program	140,000
SEEDS	Summer scholarship support program	25,000
American Red Cross	Corporate donations to relief efforts in Myanmar and China	51,477
NC Agricultural & Life Science Research Foundation	Research support	250,000
National Merit Scholarship Corporation	Scholarships	35,710
Jonas Brothers Change for the Children Foundation	Education programs for children with diabetes	100,000
Massachusetts Institute of Technology (MIT)	Bayer professorship and Bayer scholarships	100,000
United Way of the Baytown Area	Support for relief efforts in the wake of Hurricane Ike	25,270
Young Men's Christian Association of Berkeley	Support in establishing a youth center	25,000
RiverQuest	Environmental sustainability programs	33,350
Liberty Science Center	Support for the LSC Electronic Field Trip Program	75,000
National Coalition for Women with Heart Disease Inc.	Support for programs, peer groups, seminars, health fairs, etc.	100,000
International Society of Gastrointestinal Oncology	Provision of an educational forum for GI oncologists	50,000
The Wellness Community	Development and printing of training documents	50,025
National FFA Foundation Inc.	Educational programs and scholarships	56,300
Food Bank of Central & Eastern NC	Lunch program for school students from low-income families	50,000
Morristown Partnership	Funding for teachers' academy in Morris School District 31, training Bayer employees for the "Making Science Make Sense" school program	35,000
<b>2009</b>		
ASSET Inc.	Science education funding	135,000
Patient Services Inc.	Support for the premium assistance program for bleeding disorders	150,000
RiverQuest	Sustainability Camp	23,716
National Science Teachers Association	Bayer/NSTA scholarship for participation in the New Science Teacher Academy	133,500
United Way of Greater Kansas City	Support for United Way, social projects	44,008
Robert R. McCormick Tribune Foundation	Funding of programs for at-risk children, families and the elderly	50,000
Kansas City Area Life Sciences Institute	Support for science education reform program	50,000
West Virginia University Foundation	Bayer scholars in the field of extrusion compounding	76,320
University of Pittsburgh	Scholarships for graduate students in the field of materials chemistry	55,304
August Wilson Center for African American Culture	Donation	25,000
Carnegie Science Center	SciTech Spectacular CAUSE Challenge Film Festival	28,000
Duquesne University	Funding for the School of Natural and Environmental Sciences scholarship/internship program	100,000
Robert Morris University	Bayer Center for Nonprofit Management and Bayer business scholarship	125,000
Carnegie-Mellon University	Bayer scholarships for graduate students in chemical engineering and chemistry	141,259
West Haven Community House	Programs to support underprivileged children in the community	40,000
MESA (Mathematics Engineering Science Achievement)	Establishment and upkeep of a MESA center in the East Bay region of California	93,000
CDS International, Inc.	Funding for international study tours	15,000
National Organization for Rare Disorders	Patient co-pay assistance	500,000
Friends of Cancer Research	Support for cancer patient information programs	75,000
The Wellness Community	Funding for "Spotlight on Liver Cancer" program	75,325
Young Men's Christian Association of Berkeley	Support in establishing a youth center	25,000
National Merit Scholarship Corporation	Subsidies for scholarships	32,775
United Way of Allegheny County	Funding for Women's Leadership Council, Young Leaders Group and Day of Caring	25,000
National Hemophilia Foundation	Support of National Youth Leadership Institute 2009	50,000
North Carolina Agricultural Foundation, Inc.	Funding for a Bayer Chair of Sustainability in Environmental Sciences at the University of North Carolina	333,000
Agriculture Future of America (AFA)	Support for agricultural education programs	25,000

## Bayer USA Foundation: Overview of key projects

(continued)

Recipient	Project	Amount [USD]
Jonas Brothers Change for the Children Foundation	Funding and support in developing information materials on childhood diabetes	100,000
Greater Pittsburgh Community Food Bank	Support for city food project	25,000
Pittsburgh Ballet Theatre	Support for the Pittsburgh Ballet Theatre	25,000
Pittsburgh Cultural Trust	Support for the Cultural Trust	25,000
Pittsburgh Disability Employment Project for Freedom	Support for the "Project for Freedom"	25,000
Pittsburgh Opera	Support for the Pittsburgh Opera	25,000
Pittsburgh Symphony Society	Support for the Pittsburgh Symphony Orchestra	25,000
Massachusetts Institute of Technology (MIT)	Bayer professorship and Bayer scholarship for graduate students	100,000
RiverQuest	Environmental sustainability programs	33,300
National Multiple Sclerosis Society, Mid-Jersey	Information materials for patients	25,000
Food Bank of Central & Eastern NC	Lunch program for school students from low-income families	50,000
American Liver Foundation (ALF)	Information for patients	50,000
Hill House Association	Operating and project support for local neighborhood and economic development agency	22,000
Reading is FUNdamental Pittsburgh	"Books for Keeps" education campaign	20,000
Ronald McDonald House Charities	Creating accommodation for families with seriously ill children	15,000
The Salvation Army	Funding for social projects	22,000
Women's Center & Shelter of Greater Pittsburgh	Funding for the protection of abused women	22,000
National FFA Foundation Inc.	Education and scholarship program in the field of CropScience	64,650
Arch Foundation	Assistance for low-income patients without insurance cover, provision of the Mirena contraceptive coil	400,000
Sustainable Pittsburgh	Support for implementation of core programmatic elements	100,000
Passage Home, Inc.	Care facilities for young children	68,895
Liberty Science Center	Support for the LSC Electronic Field Trip Program: Education initiatives for schools	75,000
Cancer Care Inc.	Funding for education workshop on thyroid cancer	25,000
Morrisville State College	Donation of equipment to local technical school (rapid prototyping machine)	50,980
<b>2010</b>		
ASSET Inc.	Support for science education	100,000
National Science Teachers Association	Bayer/NSTA scholarship for participation in the New Science Teacher Academy	66,500
United Way of Allegheny County	Funding for United Way, social programs	25,000
Carnegie Science Center	SciTech Spectacular CAUSE Challenge Film Festival 2010	28,000
RiverQuest	Sustainability Camp 2010	26,000
CDS International, Inc.	Funding for international study tours	15,000
Power of 32	Support for visionary projects in the Pittsburgh economic region	15,000
Chronic Disease Fund, Inc.	Funding for under-insured patients with chronic diseases, cancer or life-altering conditions	1,500,000
Patient Services Inc.	Funding for patients with hemophilia	150,000
United Way of Allegheny County	Support for United Way, social projects	261,889
West Virginia University Foundation	Bayer scholarships in the field of polymer chemistry	76,320
University of Pittsburgh	Scholarships for graduate students in the field of materials chemistry	55,304
August Wilson Center for African American Culture	Donation	25,000
Robert Morris University	Bayer Center for Nonprofit Management and Bayer scholarship	125,000
Carnegie-Mellon University	Bayer scholarships for graduate students in chemical engineering and chemistry	148,322
MESA (Mathematics Engineering Science Achievement)	Establishment and upkeep of a MESA center in the East Bay region of California	93,000
Duquesne University	Funding for the School of Natural and Environmental Sciences scholarship/internship program	160,000

# Masthead

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Details of how to apply are also available at:

[www.bayer-foundations.com/en/application-service.aspx](http://www.bayer-foundations.com/en/application-service.aspx)

 For more information, go to [www.bayer-foundations.com](http://www.bayer-foundations.com)



**Cover picture**

The School Support Program of the Bayer Science & Education Foundation specifically supports projects designed to get young people interested in science at an early age. The picture shows Max Schüller from the Leverkusen-Schlebusch Comprehensive School taking a closer look at water.



**Science For A Better Life**