



**BERTHOLD LEIBINGER**  
**INNOVATIONSPREIS**  
**2012**

Awarded by the Berthold Leibinger Stiftung  
for Outstanding Innovations in Applied Laser Technology.



**BERTHOLD LEIBINGER**  
**STIFTUNG**

## Subject

When Theodore Maiman invented the first laser more than 50 years ago, hardly anyone could imagine the wide and diverse areas of application of this new technology. For science and technology, the discovery of the laser was a stroke of luck. It has become an indispensable tool in almost every field. The advancement and acknowledgement of outstanding development and scientific work on the application or generating of laser light are one of the objectives of the Berthold Leibinger Stiftung. Its innovation and research prize shall underline the great importance of laser technology.

**The Berthold Leibinger Innovationspreis** is biennially awarded since the year 2000. The call for entries is international and again in 2012 three prizes will honor innovative works on applied laser technology.

By **December 31, 2011** applications and nominations must be received by the foundation.

**The Berthold Leibinger Zukunftspreis** is a prize honoring outstanding research, as it is scientific research which lays the foundations of innovation. The jury receives recommendations but there is no call for applications for the Zukunftspreis.

**The Berthold Leibinger Stiftung GmbH** was founded in 1992 as a nonprofit, private foundation, and its objectives include the fostering of science and research. Further information on the Berthold Leibinger Stiftung can be found in the internet at [www.leibinger-stiftung.de](http://www.leibinger-stiftung.de)

## Prize Money and Award Ceremony

None of the prize money is earmarked for any specific purpose:

Innovationspreis:

First Prize: 30,000 €

Second Prize: 20,000 €

Third Prize: 10,000 €

Zukunftspreis:

30,000 €

The prizes will be awarded in a ceremony on **Friday, September 14, 2012** in Ditzingen, Germany.

## Conditions of Participation

The competition for the Berthold Leibinger Innovationspreis addresses innovations whose main development efforts and market success or potential lies in the application or generating of laser light. There is no restriction with regard to the field of application.

All individuals and project groups worldwide are eligible to participate. Submitted work must be completed and disclosure must not be restricted. At the time of application it should either be published or be free for publication. Confidential information can be included as an attachment labeled as confidential. Any important author/inventor of the work must be included adequately.

Participation results from either a personal application or a nomination. Those who are nominated should be asked for their consent. They will be informed on their participation in the competition by the foundation. Those who will be selected as finalists by the jury are expected to join the jury session and cooperate in public relation efforts. Travelling costs will be reimbursed.

The English or German documents can be submitted by mail or email. Electronic forms for applications and nominations can be downloaded from [www.leibinger-stiftung.de](http://www.leibinger-stiftung.de).

The Berthold Leibinger Stiftung reserves the right to make changes and modifications to the conditions of participation. Legal action is excluded.

## Applications

An application for the Innovationpreis includes:

- the submission form for applications;
- written documentation on the work (in accordance with the structure as stipulated below), of between 5 and 10 pages in length;
- a biography of the applicant or of the members of the project group applying, of max. 2 pages in length respectively;
- an explanation of approximately one page in length describing the context within which the work was carried out.

The written documentation must be structured as follows:

1. an abstract of 5 to 10 lines in English
2. the technological state of the art
3. an illustrated description of the innovation
4. how the solution was reached
5. the advantages or technological benefits of the innovation in relation to the state of the art
6. practical utility and/or benefits.

## **Nominations**

To send us a nomination of the work of a third party for the Innovationspreis, please include

- the submission form for nominations;
- short description of the outstanding scientific work;
- the reasons for the nomination.

## **Criteria**

The work submitted for the Innovationspreis will be evaluated in terms of progress of scientific findings in relation to the state of the art, the scientific quality and technical creativity as well as the individual's achievements. Practical utility and benefits are very important issues.

The core of the innovation of applications should directly be related to the effects or influence of laser light.

Innovation shall be understood as the overall process including all steps from recognizing a demand, creating an idea, finding of the necessary basics, the product development and manufacturing of a marketable product. The term is not limited on technical products but can likewise be used for any process or method.

From the submitted works the jury selects finalists who are invited to present their work at the jury session in spring 2012. The prize winners will then be chosen from the finalists based on their presentation and the following discussion.

## **Jury**

Stephen Anderson  
Associate Publisher and Editor-in-Chief  
of Laser Focus World

Prof. Dr. med. Hans-Peter Berlien  
Chief Physician of the Laser Medical Department,  
Ev. Elisabeth Hospital Berlin

Prof. Dr.-Ing. Hubertus Christ  
Former Member of the Board of Management  
of the ZF Friedrichshafen AG

Prof. Dr. Theodor Hänsch  
Max Planck Institute for Quantum Optics,  
Ludwig-Maximilians-Universität München

Prof. Dr.-Ing. Helmut Hügel  
University of Stuttgart, Institut für Strahlwerkzeuge

Prof. Dr. Ursula Keller  
Swiss Federal Institute of Technology Zurich,  
Institute of Quantum Electronics

Prof. Dr. med. John Stuart Nelson  
Medical Director of the Beckmann Laser Institute

Prof. Dr. Hans-Jürgen Quadbeck-Seeger  
Former Research Executive Director of BASF SE

Prof. Dr. Orazio Svelto  
Technical University of Milan, Department of Physics

Prof. Dr.-Ing. Hans-Jürgen Warnecke  
Fraunhofer Institute for Manufacturing Engineering  
and Automation

## **Contact**

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