

2014 Honda Prize Nomination Guide



HONDA FOUNDATION

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Appendix: List of Past Laureates

1. Founding Prospectus

Modern society has achieved greater prosperity than ever, thanks to sustained high economic growth which has been made possible through a rush of technological innovations in production, traffic, transportation, communications and other activities. We are experiencing revolutionary changes in our way of life, and in our changing life-style we have also expanded our horizons.

This achievement, made at a fast pace, has had negative effects too: environmental destruction, pollution, urban density, population explosion, food shortages, growing nationalism plus a number of other deep-rooted, complex issues.

Serious efforts have been made to resolve these problems. Each of them, however, is a kaleidoscopic reflection of different elements of modern civilization, and thus requires a completely new approach in the search for a resolution.

A makeshift resolution serves no purpose. Wisdom and effort must be pooled on an international level, and through an interdisciplinary approach to the analysis of modern civilization, the results can be used for the promotion of human welfare and happiness. In such a way must we strive to create a higher level of humane society.

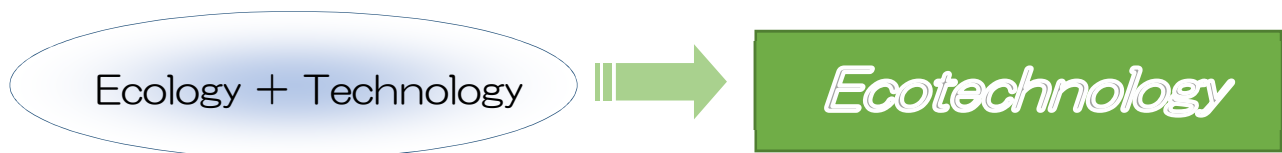
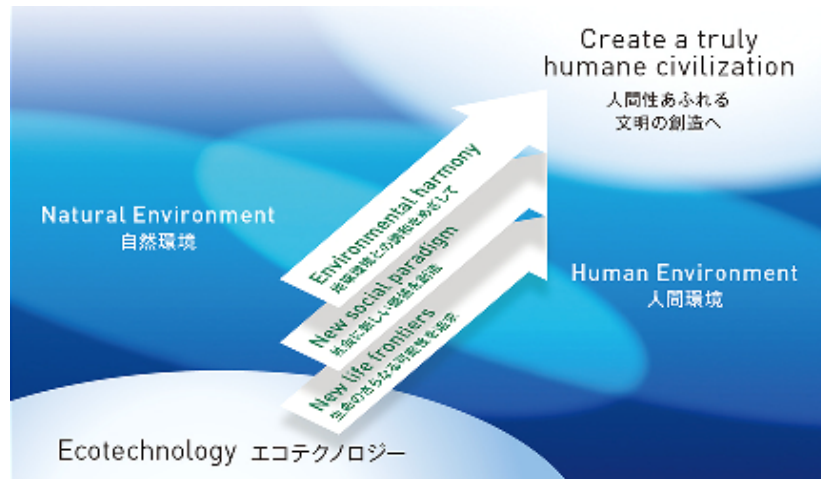
In order to provide the opportunity for scholars, researchers and specialists from all walks of life, irrespective of nationality, to meet together and freely discuss the present state and the future of our civilization, the HONDA FOUNDATION sponsors international exchange, symposia and study groups, and offers prizes and awards for the promotion of research, education and other such activities, and also carries on its own study and research, making use of the achievements of modern civilization, the FOUNDATION was established with such objectives in mind, and by extending its own activities to fulfill the requirements of the modern age, it contributes towards the creation of a truly humane civilization.

Est. (since) December 27, 1977



Founder: Soichiro Honda and Bejiro Honda

2. Our Vision



Our central vision is to realize the ideals of ecotechnology. Ecotechnology is a combination of ecology and technology, but reflects our unique perspective on the concept of ecology.

It is no longer necessary to argue that utilization of scientific developments must be carefully balanced with the health of the natural environment as most environmental issues are byproducts of industrial developments in advanced economies that could possibly endanger the existence of humanity. However, there is another perspective that the Foundation holds to be important, that being the importance of factoring in the harmonization between science and technology and the human environment. In the past, science and technology have excluded diversity of countries and regions and human elements such as emotion and sensitivity. Yet the protagonist of the science and technology paradigm should be such elements, that is the human being.

Science and technology that is in harmony with both the natural environment and the human environment. In order to develop and expand our ecotechnology vision, it requires interdisciplinary perspective including many areas from natural and applied sciences to social science. Our Foundation is committed to efforts for the expansion of ecotechnology through a variety of activities along with orientations as follows:

- *Environmental harmony*
- *New social paradigm = Innovation*
- *New life frontiers*

3. Our Activities

Our goal is that the power of science and technology should truly contribute to happiness and peace for humanity, and we pursue the following three activities for that purpose.

● Honda Prize

Established in 1980 as Japan's first international scientific award, the Honda Prize has been awarded every year on Soichiro's birthday. It rewards an individual or a group for their contributions in light of ecotechnology in improving people's lives.



● International Symposia and Colloquia

Since our inception we have been providing opportunities for open discussions on the roles and possibilities of ecotechnology among experts in various disciplines. At home we invite academicians and policy makers for quarterly Colloquia to discuss around specific topics presented by guest lecturers



● Honda YES Award

We have started the YES Award program for fostering future leaders in the field of science and technology. The program has been introduced in Vietnam in 2006, followed by India in 2007 and extended to Cambodia and Laos in 2008.



4. Purpose of Honda Prize

Honda Prize was established in 1980 as Japan's first international scientific award. This prize is one of the embodiment of the founding prospectus as you can see from the abstract below.

Abstract from the founding prospectus

Back ground and issues

- Modern society has achieved greater prosperity than ever
- We are experiencing revolutionary changes
- This achievement, made at a fast pace, has had negative effects too

Direction of the solution



Ecotechnology

- requires a **completely new approach** in the search for a resolution
 - international level, and through an interdisciplinary approach to the analysis of modern civilization
 - we must strive to create a higher level of humane society

Specific activities



Implementation

- **from all walks of life** to meet together and freely discuss
 - international exchange, symposia
 - study groups
 - **awards** for the promotion of research, education and other such activities
 - its own study and research, making use of the achievements of modern civilization
- was established with such objectives in mind

Desire

- it contributes towards **the creation of a truly humane civilization**



Honda Prize rewards an individual or a group for their contributions in light of ecotechnology in improving people's lives.

5. Awards

The laureate will be awarded prize medal and certificate in addition to 10 million yen.



Part III 2014 Honda Prize Nomination Guide

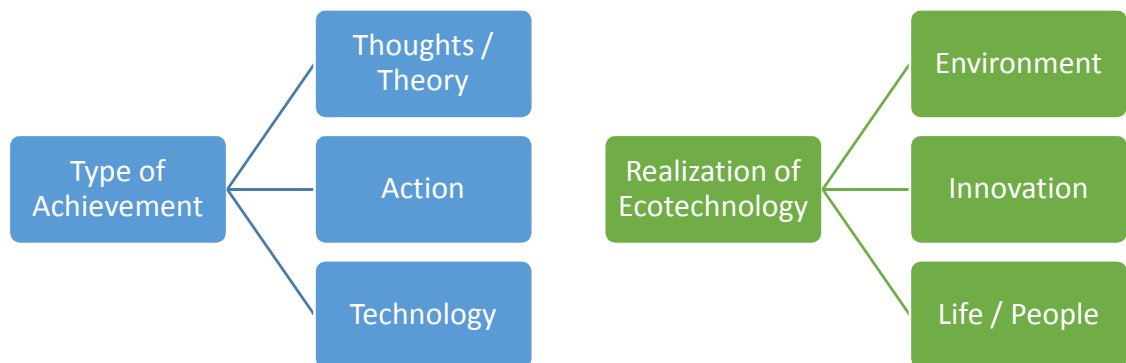
6. Eligibility

- An individual or a group, irrespective of nationality, for his/her/its distinguished contribution in light of ecotechnology.
- Achievements should be not only narrow scientific/ technological new discoveries and inventions but also be served to the improvement of people's lives around the world from the view point of entire processes that would bring out, apply, or share new frontiers in ecotechnology.
- Target fields include the broad range of related scientific fields such as mechanical /electronic/space engineering, chemical, physics, bioscience, agriculture, economics and medicine. It also includes an individual / a group in interdisciplinary research areas.

Note: Recommendation oneself cannot be accepted.

7. How to Nominate

- Complete the nomination form that was mailed or e-mailed by Honda Foundation. Describe nominee's achievements as clearly as possible. Achievements also needs to be classified in two respects as figures below: What type the achievement is and how the achievement realized the ecotechnology. You can make multiple choice. Regarding how to fill in achievements part, please see the sample of the form in next page and the list of past laureates in the appendix for your reference.



- Reference materials to support understanding can be accepted but should be less.
- Submit the nomination form **no later than March 31, 2014** either via e-mail to norie_yamamoto@hondafoundation.jp or fax to +81-(0)3-3274-5103

8. Selection Procedure and Notifications

The laureate will be determined through a series of deliberations by multidisciplinary selection committee. Announcement of the laureate will be released in September.

Note: Through the whole selection procedure, we do not contact with nominees directly but contact only the laureate after the person / group is determined.

9. Contact

If you have a question, please contact Honda Foundation:

2-6-20, Yaesu, Chuo-ku, Tokyo 104-0028 JAPAN

Tel: +81-(0)3-3274-5125 Fax: +81-(0)3-3274-5103

E-mail: h_info@hondafoundation.jp

HP: <http://www.hondafoundation.jp>

10. Sample of the Nomination Form
(in case of Dr. Shuji Nakamura, laureate of 2000)

Details of Nomination		
Achievements for Ecotechnology	Title of Achievements	Invention of blue LED
	Type of Achievements (Circle an item)	<ul style="list-style-type: none"> • Thoughts / Theory • Action • Technology
	Realization of Ecotechnology (Circle an item)	<ul style="list-style-type: none"> • Environment • Innovation • Life / People
	<p><u>Details of Achievements for Ecotechnology</u></p> <p>Illumination is essential for the cultural life of the modern men. The consumption of energy required for illumination is tremendous as taken on the worldwide scale. The development of a very efficient light-emitting substance is very important from the viewpoint of saving energy and micro processing..</p> <p>Under such a condition, Mr. Shuji Nakamura started studying various materials and methods in view of realizing a laser diode (LD) and a light-emitting diode (LED) that emit stably green and blue lights constituting the three primary colors of light at the ambient temperature.</p> <p>This had a far-reaching effect, and opened the way for the development of a semiconductor to be used as a light source for high-density recording on optical disks. And the combination of the newly developed blue LED and the green LED with the existing red LED completes the three primary colors of light that can be used as light sources and opened the way for a variety of uses such as white light source and full-color displays. Light-emitting bodies created by this R&D consume very little power, are environment friendly, and are considered to be one of the most important energy-saving devices.</p> <p>Thus, Mr. Nakamura's research and development can be considered as one of the most important examples of ecotechnology</p>	

10. Sample of the Nomination Form-2
(in case of Dr. Shuji Nakamura, laureate of 2000)

Details of Nomination	
Details of Contribution	* Describes what the nominee and his/her/their achievements contribute at each phase.
	<p><u>Invention/ Discovery</u></p> <p>Until then it was difficult to produce a p-type semiconductor of the gallium nitride (GaN) group. He found out the reason for this, and overcame the difficulty by exerting his own ingenuity. He succeeded in crystallizing a p-type semiconductor of the GaN group by irradiating electron beams on gallium nitride (GaN) doped with magnesium (Mg) and by thermal processing of the same in the nitrogen environment. And thus he succeeded in making an ultra-short wave light-emitting diode and a similar laser diode.</p>
	<p><u>Application / Development</u></p>
	<p><u>Prevalence at General Level</u></p> <p>Moreover, Mr. Nakamura merchandised these products and brought them up to the marketable level.</p>

公益財団法人 **本田財団**
HONDA FOUNDATION

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