

INTERNATIONAL IDEAS
COMPETITION
2013

HOUSING OF THE FUTURE

SNAPSHOT OF AN IDEA

PARAMETRIC
CHAOS
INNOVATION
CITY
TRANSPARENCY
ENGINEERING
PROPORTION
TEXT
CLEAN ENERGY
PROGRESS
BIOMIMICRY
ENVIRONMENT
ARCHITECTURE
TECHNOLOGY
RESEARCH
REFLECTION
SUSTAINABILITY

@Javier_Gomez_Mia



FUNDACIÓN EDUARDO TORROJA

For more information please visit:
www.fundacioneduardotorroja.org



The **Fundación Eduardo Torroja**, in conjunction with the Spanish Community of Madrid, Department of Transport, Infrastructure and Housing, the Polytechnic University of Madrid, Technical Schools of Architecture and Civil Engineering, the Office of the Deputy Vice-Chancellor of the Technical University of Madrid, the Fundación Juanelo Turriano, SIKA Spain and F.Molina obras y servicios, announce an International Ideas Competition for architectural and civil engineering students.

This competition forms part of the foundation's activities, which in 2013 will focus primarily on housing: past, present and future. The aim is to create a forum for reflection, debate and the pooling of ideas, not only for architects and engineers, but also for other sectors of society, in particular students presently training in polytechnic universities, who will play a prominent role in the construction of the future.



Rules

1. Objective

The primary objective of this **ideas competition** is to encourage polytechnic university students to take part in the necessary international **reflection** around what the *housing of the future* should be like. This question has no permanent answers, for housing must advance at the same pace as social demands and contemporary scientific and technological developments.

In the world today, reflection on these matters focuses on the need to ensure the planet's **sustainability**. That in turn calls for the **clean and economical production of energy** and **mass production** of affordable housing for all which, while meeting these important requirements, also specifically addresses social and land management issues on a local scale.

Science and technology need to continue to adopt **innovative approaches to building the homes of the future**. Given this need to innovate, students should reflect on which formal and technological factors could provide construction solutions for the housing of the future.

Students are not expected to embark on ambitious or complex projects that might interfere with their course work. The intention is for them to reflect on the housing of the future and **graphically represent** an innovative **formal or technological** idea.

2. Contestants

2.1 Any student enrolled in architecture or civil engineering in a polytechnic university in Spain or abroad, irrespective of year or speciality, is eligible to participate in the competition.

2.2 Ideas may be submitted by individual students or groups of any number of members.

Students may also form inter-disciplinary (architecture and civil engineering), inter-university or international groups. On-line networks provide an inspiring platform for pooling ideas and knowledge. And one of the primary aims of the Fundación Eduardo Torroja is to support and encourage international collaboration between civil engineering and architecture.

3. Pre-registration

Participation in the competition is subject to cost-free free pre-registration, which simply involves filling in the form published on www.fundacioneduardotorroja.org. Pre-registration applications will be processed by the foundation, which will confirm admission (after requesting rectification of the information furnished, as appropriate).

The following information must be provided on the form:

- contestants' first and last names.
- national identity card or (non-Spaniards') passport number.
- name of technical school or university where each contestant is enrolled.

Important: Pre-registration entails no obligation whatsoever, but it is **requisite** to participation in the competition.

Pre-registration dates: 15 April to 15 June 2013

4. Subject: Housing of the future / Snapshot of an idea

Housing is a very broad, varied and multi-faceted topic and the future is an imprecise time which could be defined to begin right now or an instant from now, and which may be open-ended. But mentally at least, the future can be travelled to or even inhabited for a few minutes, days or years.

Contestants should, then, focus their proposals on a given segment of that future, and on the **factors of greatest interest or concern to them** in connection with the housing that will be needed at the time. They should draw for reflection from the solutions put forward by today's international avant-garde, to envision alternatives and solutions **not yet built** or, perhaps, even imagined.

One essential reference in connection with sustainability is Norman Foster's project for the city of Masdar in Abu Dhabi, which will be the world's first city to generate no CO₂ emissions or waste. One possible response to the world's future priorities is , then, already a work in progress. Nonetheless, solutions will have to be found for each and every place on the planet, a need that will entail changing human beings' basic habitat: housing. In a similar vein, a key reference for clean energy generation can be found in the concepts put forward by the German engineering firm Schlaich, Bergermann und Partner.

By way of indication only, contestants may be interested in imagining solutions for the near or distant future for: the mass and sustainable production of low-cost collective or single family housing, built with new industrialised systems to provide affordable housing "for all" in the future. Another possibility would be new solutions for seismic-resistant housing in the planet's most vulnerable areas, or for convertible housing, whose geometric shape and skin (façades and roof) can be made to adapt to climate change or the need for more space. Smart, energetically self-sufficient housing fitted with new systems to capture solar, wind or hydro energy, is yet another area that might be explored. User-buildable single family housing based on simple assembly systems, or transformer housing that can be converted into a vehicle for (even space!) travel are further examples. Students, however, may wish to explore any other formal or technological challenge along the lines of the reflection proposed in ways that only they can imagine.

5. Proposals

5.1 Content

Proposals will consist of: **one or several illustrations** that define the main characteristics of the idea submitted, along with English language legends for ready understanding.

- a) the **tag line** coined for the proposal; contestants' names may not appear anywhere in the documentation submitted.

5.2 Graphics techniques

While graphics may be created by any manual or digital (using any manner of CAD software) technique, proposals must be digitised and submitted as high resolution PDF files **on digital media** (CD or DVD). They will be collected by students' university professors, who will forward them to the Fundación Eduardo Torroja as described in item 6 below.

5.3 Format

The graphics and information comprising the proposal must be designed for printing as a **single 50x70-cm** poster (on digital media).

The content (text and graphics) must be arranged vertically (x= 50 cm / y= 70 cm).

5.4 Submission / tag line

Proposals will be submitted to the professors in charge in each university, in a sealed envelope identified with the students' chosen tag line. The envelope will contain:

- a) the (50x70-cm) poster digitised to PDF format (maximum size: 110 MB) with the maxim and copied onto computer media (CD, DVD, flash drive,...)

- b) a smaller envelope likewise labelled with the tag line and holding the registration form (published with the rules) where the authors must specify their first and last names, national identity card or passport numbers, telephone numbers, e-mail addresses and the names of their university and the professor designated to receive submittals.

The professor in question will e-mail all his/her students' proposals to Fundación Eduardo Torroja.

Failure to comply with the provisions of these rules may entail disqualification.

Participation in the competition implies full acceptance of all the rules.

6. University/professor collaboration

6.1 Universities in Spain or other countries and the respective professors who deem student participation to be of interest will serve as support for the organisation and help promote the competition as described below.

- a) They will draw students' attention to the competition and encourage them to participate, providing motivation and guidance for their reflections on the housing of the future.
- b) **Important:** professors will collect their students' proposals in digital format (PDF file), custody the sealed envelope containing participants' names and particulars (item 5.4) and verify that submittals meet all the requirements laid down in these rules. They will then proceed to e-mail (contacto@fundacioneduardotorroja.org) the proposals only with their respective maxims to the Fundación Eduardo Torroja. This procedure will: ensure that the judges will identify each proposal with its maxim only, not the authors' names; save students the expense of mailing their proposals on computer media (CD, DVD, flash drive...) by post; and avoid the risk of recognition that would otherwise exist (if students were to submit their proposals from their own e-mail addresses, for instance).

7. Delivery of proposals

7.1. Date and procedure

Proposals will be e-mailed in digital format (5.3) to the Fundación Eduardo Torroja by **30 June 2013** to the address: contacto@fundacioneduardotorroja.org .

8. Prizes

Three prizes and three honourable mentions will be awarded, along with a diploma issued by the **Fundación Eduardo Torroja**.

First prize:	6.000 euros
Second prize:	3.000 euros
Third prize:	1.500 euros

9. Jury

The Fundación Eduardo Torroja will be represented by two of the designated members, and the collaborating entities or sponsors by one each.

10. Jury's decision

The decision will be adopted during July 2013.

11. Announcement of awards

The prizes will be announced in the media and on the websites of all the organisations involved.

All participants will be informed of the date, time and place of the awards ceremony in due time.

12. Right to publish proposals

The Fundación Eduardo Torroja and all the collaborating entities and sponsors, as well as participants' universities, may publicise the proposals submitted

in any media whatsoever (printed or digital press ...). Participation in the competition will stand as proof of acceptance of such right, which may or may not be exercised.

The foundation reserves the right amend the rules as necessary to the benefit of the competition.

COMFORT
SUSTAINABILITY
ENGINEERING

COMPETITION ORGANIZER:



FUNDACIÓN EDUARDO TORROJA

SUPPORTERS:



FUNDACIÓN
JUANELO
TURRIANO



F. MOLINA
OBRAS Y SERVICIOS