

## **8<sup>th</sup> CONTEST REGULATION**

### **OUSADIA 2015**

#### **1 OBJECTIVE**

To develop a Basic Project for the structural components of a construction in concrete reinforced or prestressed, in loco or precast, as the most daring solution to the challenge proposed by IBRACON. This basic project must present its technical viability through its adequacy to the local context and the structural analysis according Brazilian Standards requirements or International Standards, for aspects not mentioned in the Brazilian Standards.

The proposed challenge intends to:

- develop students capability in developing daring and bold projects;
- contribute to the improvement of the partnership between Architecture and Civil Engineering students, looking for efficient, stable, durable, economical, sustainable and better looking projects;
- expand the knowledge of the concrete technology. For this purpose, it is mandatory for all the projects present elements or components in concrete, reinforced or prestressed in its structure;
- highlight the importance of considering local conditions – environmental, economical and cultural – in the definition of the architectural solution adopted.

#### **2 PARTICIPATION**

**2.1** In order to participate in this Contest, the teams must be composed by architecture, civil engineering or technology (building or materials construction, etc.) students from any state of Brazil or from other countries, since the students are enrolled in academic year in a program authorized by *Ministério da Educação* (MEC) or respective higher education organisms from foreign countries.

**2.2** Each team must be composed by at least 4 (four) students. It is mandatory to have one Architecture and one Civil Engineering student.

**2.3** It is allowed the inscription of at the most 4 (four) projects per educational institution.

**2.4** It is allowed the teams be composed by students from two different educational institutions.

**2.5** It is not allowed the participation of any member in more than one team. If it happens, both teams will be disqualified by the Judging Committee.

**2.6** Each team must be guided by a professor from the respective educational institution. This professor must ensure the team conformity with the rules established in this Regulation and sign the Responsibility Term (Annex 1) for the team participation in this contest.

**2.7** The Responsibility Term must be submitted with the Basic Project (Annex 2). The lack of accordance with this Regulation can disqualify the team, independently of the final result.

**2.8** It is mandatory to the Professor mentor and one team member be an IBRACON membership and at least one team member be registered in the 57<sup>th</sup> Brazilian Concrete Congress 2015.

### **3 2015 CHALLENGE**

The 8<sup>th</sup> Ousadia Challenge for Engineering and Architecture students proposes the development of a basic project for an Entrance Gate with a Tourist Information Center for Bonito city, in Mato Grosso do Sul state (Construction site: 21°10'44.12"S 56°26'56.62"O).

The project must conciliate the strong local landscape features and the continuous efforts to reduce the environmental impacts, inherent of Bonito's tourist attractions conservation strategy.

The proposal must highlight a good local insight related to the natural shapes, raw materials available that be used with concrete, the proper project dimension and proportion to the site. The project must respect the following conditions:

- having a height template bigger or equal to 6.75m, according to DNIT ISF 219 requirements;
- presenting structural stability, according to the definitions of ABNT NBR 6118, as well as attend the requirements of durability for a project lifespan of at least 50 years and the respective processes of maintenance. These requirements have eliminatory criteria, according to 6.1.1;
- contemplating accessibility to handicapped or disabled people through the federal and municipal laws related to the theme;
- being harmonically inserted in Bonito's city context;
- projecting a landscaping suitable to the site, ensuring the concept of a touristic capital;
- creating a referential suitable to the city, including the night period, with a smart and sustainable lighting system;

- allowing a privileged view of the region without penalize the surrounding landscape;
- balancing the technical concepts to the sustainable principles, mainly of environmental and cultural dimensions: rational use of resources, reduce environmental impacts, promote environmental integrity maintenance, stimulate the environmental issues and enhance regional constructive knowledge.

Relevant information about the project can be obtained from March 9, 2015, at [www.ibracon.org.br/eventos/57cbc/concursos.asp](http://www.ibracon.org.br/eventos/57cbc/concursos.asp).

## **4 TEAMS APPLICATION**

**4.1** The application must be realized by e-mail [ousadia@ibracon.org.br](mailto:ousadia@ibracon.org.br) until **August 15, 2015**. The Application Form model can be found at the Annex 3 of this Regulation.

## **5 PROJECT DEVELOPMENT**

### **5.1 General Provisions**

All the teams must assign the authorial rights to IBRACON, allowing the wide dissemination and ensuring the authorial rights, according to Annex 4.

### **5.2 Project and model requirements**

The project must respect the following requirements:

- balancing technical with durability, sustainability, economic viability, maintenance easiness concepts,
- the projects must be presented in three boards ABNT A1 size, following the pattern paper available at IBRACON's website: [www.ibracon.org.br/eventos/57cbc/concursos.asp](http://www.ibracon.org.br/eventos/57cbc/concursos.asp) (from March 9, 2015);
- the projects must be set by the team members in the destined area at Bonito's Convention Center. For this reason, they must be presented in unwrinkled boards. If a greater stiffness or protection of the board is necessary, the teams can add a sheet of cardboard or other light and thin material. The boards cannot be glued to the base, like plywood, expanded polystyrene or similar material that implies weight or thickness. It also cannot present frames or accented reliefs. For the presentation, if necessary, can be used a light and thin base, like cardboards or lamination, with at most one millimeter think, allowing the boards setting in the rigid standard panel;
- the identification of team members will happen only after the judgment

and the boards must preserve the participants' anonymity. The board cannot have the name or logo of the team members, professors, university, sponsors or any other information that allows the team identification;

- each team can present, beyond the three mandatory boards, a model smaller or equal to 1m<sup>2</sup> area; this model must be presented on a scale defined by the team and informed in inferior right corner of it. The model cannot have a protection, even in translucent materials, to avoid reflections in photos. The models will be evaluated according the following criteria: esthetics, originality, creativity and mandatory appropriateness to the theme, which can add until 5 (five) points in the final score of each team. There is no restriction regarding the materials;
- the teams must prepare a presentation of the project in models, prototypes of digital files with or without animation or similar. This material will be available to Bonito's population to voting. The presentation can be made by image or video (in this case, the video must be transferred to Youtube platform and only the link must be submitted to IBRACON in the team application, together with the other required documents);
- complementary information for the project understanding can be presented in the Project Specifications since it does not imply in identification, for example, location, city, neighborhood, reference files, transcriptions or quotations. However, the boards cannot show picture credits that allow identification of the work;
- the boards must be independent in the presentation. In other words, the drawing cannot start on one board and finish in another one, because it will not be possible to put them together for presentation and evaluation.

The structural viability, durability, accordance with the current normative and other specific conditions of the contest must be justified and detailed through the Basic Project and the Project Specifications, where should be included the Activities and Use Program.

### 5.3 Handling projects

5.3.1 The three boards and the Basic Project must be recorded in a CD or DVD, in .dxf or .pdf, and sent by mail (Certified mail, Sedex, Fedex or DHL) to IBRACON's head office in São Paulo address for preliminary evaluation [Rua Julieta do Espírito Santo Pinheiro, 68 Jardim Olímpia CEP (Zip Code) 05542-120 São Paulo / SP – Brasil, Phone.: (55 11) 3735-0202 Fax: (55 11) 3733-2190]. It must be posted until **August 15, 2015**.

5.3.2 If deem fit, the teams are allowed to send their files to file sharing websites (Ex.: Dropbox, Sendspace), sending the links to [ousadia@ibracon.org.br](mailto:ousadia@ibracon.org.br) until **August 15, 2015, 11:59pm** in Brasilia time zone.

5.3.3 The Responsibility Term must be properly signed and submitted with the documents prescribed in 5.3.1.

5.3.4 It will be accepted the projects from preregistered teams inside the deadline stipulated in 4.1.

5.3.5 The board and the model must be set by the members of the team in the pre-established area under the Ousadia Contest Organizer Committee surveillance on **October 27, 2015, from 5pm to 8:30pm** at Bonito's Convention Center, Mato Grosso do Sul.

5.3.6 In the act of handling the projects, the team will receive an identification that confirms its participation in the Contest.

5.3.7 The team that does not state its project at this time and date in the 57th Concrete Brazilian Congress will be automatically disqualified.

## **6 JUDGING COMMITTEE**

The Judging Committee will be composed of 7(seven) IBRACON members that represent the region of the event and the National Coordination.

The members of the Judging Committee will be revealed during the 57th Brazilian Concrete Congress 2015 and they will be responsible for evaluating the compliance of this Regulation and results dissemination. The decisions made by the Judging Committee cannot be appealed.

More information can be reported to the Organizer Commission by the e-mail [ousadia@ibracon.org.br](mailto:ousadia@ibracon.org.br).

### **6.1 Evaluation steps**

#### *6.1.1 Step 1 – Preliminary evaluation*

The projects will be initially evaluated according to the Construction System adopted (Stability – Durability - Maintenance), used as eliminatory criteria.

This evaluation will happen from August 16 to August 31, 2015. At the end of the evaluation, the teams will receive a feedback from the Judging Committee about their projects – Approved or Pending.

The projects considered Pending must incorporate the requested corrections by the Committee and must be resubmitted until September 15, 2015, in the formats described in 6.3.1 and 6.3.2. The Committee will reevaluate the project conformity and inform to team about its opinion until September 25, 2015, considering it Approved or Reproved.

### *6.1.2 Step 2 – Popular voting*

In this Contest edition, the approved projects will be available to the local population from September 28 to October 23, 2015, which will be able to assign a score to each project (from 1 to 10). This score will compose the project evaluation criteria and will be considered by the Judging Committee.

### *6.1.3 Step 3 – Evaluation in the Congress*

The projects Approved in the previous step must be exposed in the exhibition area since October 27, 2015, in order to be examined by the participants of the event and the Judging Committee, which will receive an Evaluation Form with the evaluation criteria. This Evaluation Form must be properly filled and handled by the Organizer Committee on October 30, 2015, in a formal meeting to elect the winner projects.

The teams have no right to expose their projects to the Judging Committee, which will be properly identified. However, they are able to defend their projects to the participants of the event. The students who violate this rule will be punished at the judgment in the presentation criteria.

The Judging Committee can refuse any registered project if notified any violation of Contest Regulation. The Organizer Committee will sum all the scores and will make the divulgation of results on the awards event of the 57th Brazilian Concrete Congress, on October 30, 2015 (Friday).

## **6.2 Evaluation parameters**

These items will be evaluated in all submitted and exposed material:

- Presentation;
- Plasticity;
- Functionality;
- Accessibility;
- Adaptation to Environment;
- Technical viability;
- Use and activities program;
- Creativity – Peculiarity;
- Durability & Sustainability;
- Population opinion.

The following items will be considered as the evaluation criteria:

- score for each item will be 1 to 10;
- each member of the Judging Committee must give a final score for each

team according to the evaluation criteria;

- the Judging Committee must elect the 3 (three) best teams to be rated as winner (1<sup>st</sup> position); featured (2<sup>nd</sup> position) and merit (3<sup>rd</sup> position);
- it must be indicated only one team for each position. In the event of a tie between teams, it will be considered winner the team who has used less total concrete volume.

## **7 PRIZES**

The team winning first place will be awarded a cash prize (the value of which will be released from 30/04 on the contest website). The three teams with highest scores will receive, during the awards ceremony of the 57th Brazilian Concrete Congress, the plates allusive to the reached result in this contest.



*(model file – digital filing)*

**ANNEX 1  
RESPONSABILITY TERM**

**8<sup>th</sup> OUSADIA CONTEST  
BONITO/MS – 2015**

**TO  
INSTITUTO BRASILEIRO DO CONCRETO  
A/C: 8<sup>th</sup> OUSADIA ORGANIZER COMMITTEE**

**RESPONSABILITY TERM**

I, ..... (Name of the mentor professor), RG ....., (CI, CREA or CAU)....., Mentor Professor of the team ....., from .....(Name of education institution)....., send to the 8<sup>th</sup> IBRACON Competition – OUSADIA 2015 Organizer Committee this Responsibility Term in which I declare that the project registered in this competition is in conformity with the respective Regulation.

I certificate that all the registered students are architecture, engineering or technology students of this education institution.

I also declare to be aware that any noncompliance with the Regulation will disqualify the team, that will have its procedures evaluated by the Judging Commission and may be prevented from participate for one or two editions of this competition.

..... 2015.

(Full name and signature of the mentor professor)

(Registration number on respective education institution)



**ANNEX 2  
BASIC PROJECT  
8<sup>th</sup> OUSADIA CONTEST  
BONITO/MS – 2015**

The Basic Project must include the Architectural and Structural Projects and the Project Specifications.

The Architectural Project must include one floor plan; two sections, one longitudinal and one transversal; two exterior elevations, the main and the secondary. It also must include the construction systems adopted, the environments sizes, colors, basic materials and the furniture and equipments position.

The Structural Project must include the design, structural analysis and synthesis of the basic structural elements, foundations and complementary (if necessary), to a minimum lifespan of 50 years. It must be included:

- formwork plans;
- structural materials specification;
- frame design of all the sections;
- the considered loads (permanent and accidental); and
- calculation memorial.

The Project Specifications is a biography of the project, which describes and analyses all the relevant points, like the materials to be used, project inspiration, project and surrounding characteristics.

It is recommended to the Project Specifications includes in its structure the following information: data collection, requirements program, technical feasibility study, architectural party and preliminary study as well as the Technical Standards consulted. This information must be summarized and presented in a clearly and relevant way.

The Project Specifications also must describe the detailed technical specification of the materials to be used, without brand definitions, as well as the maintenance program of each component of the structure to reach the project lifespan.

Formatting: The text must be typed in Arial 12 font with simple spacing between the lines and 12 points between paragraphs, in A4 sheet paper with the following margins 3cm(T)/2cm(B)/2,5cm(L)/1,5cm(R).

All the projects must be submitted in *.dwg* or *.dxf* in the informed scales.

*(model file – digital filing)*  
**ANNEX 3**  
**APPLICATION FORM MODEL**

**8<sup>th</sup> OUSADIA CONTEST**  
**BONITO/MS - 2015**

<b>EDUCATIONAL INSTITUTION:</b>			
<b>TEAM MEMBERS</b>			
<b>NAME</b>	<b>E-MAIL</b>	<b>UNIVERSITY REGISTRATION NUMBER</b>	<b>IBRACON MEMBERSHIP NUMBER</b>
<b>PROFESSORS</b>			
<b>NAME</b>	<b>E-MAIL</b>	<b>UNIVERSITY REGISTRATION NUMBER</b>	<b>IBRACON MEMBERSHIP NUMBER</b>

PS: At the time of registration, attach the logo of the educational institution and the team photo to this Application Form.



**(model file – digital filing)  
ANNEX 4**

**AUTHORIZATION FOR PROJECT RELEASE**

**LICENSE TO THE USE OF INTELLECTUAL WORK (Author)**

Clause 1 – For this particular instrument, the LICENSOR authorizes IBRACON to release his work, without exclusivity, with unlimited validity period starting from the date this license was signed.

Clause 2 – This license is granted free of charge, where the LICENSOR authorizes the LICENCED to includes the release by thirds compatible to the subject of this work.

Clause 3 – The LICENSOR ensures to not have licensed to thirds the rights of this work.

Clause 4 – In case of co-authoring, the LICENSOR signs as one of the authors and agree to inform the other authors about the license granted.

**LICENSOR (S)**

**TEAM IDENTIFICATION**

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Licensors

..... 2015.