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Rules for the Henry Granjon Prize		5/2/2016

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Rules for the Henry Granjon Prize

Release notes: This is a commented version, with some proposals of modifications. After agreement on the update, a major revision of the submission form for Henry Granjon Prize as well as templates for letters will be needed. The objective is to have the new system effective in 2017.

PREPARATION	VERIFICATION	APPROBATION	TARGET USERS
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1. Introduction

The purpose of this document is to provide advice and information and to outline the rules governing the procedures to be followed for The Henry Granjon Prize Competition.

2. Purpose of the Competition

The Henry Granjon Prize Competition is an annual international competition among authors of papers devoted to research into welding technology or a related subject. The purpose of this Competition is to stimulate interest in welding and allied processes among young people.

3. Eligibility

To be eligible for the Competition, original scientific papers (theses, research reports, state-of-the-art surveys, etc.) must **not have been previously published**, and must be **based on recent work** carried out at a University or an equivalent educational institution, or in industry.

This work must either form part:

- of a Master's or Doctoral Degree project, or,
- of an industrial project at an equivalent technical level.

4. Scope

The work must fall within one of four main categories of technology related to joining, surfacing or cutting:

- Category A: Joining and Fabrication Technology

This category covers more specifically:

- Flame welding processes
- Arc welding processes
- Physics of the heat source (e.g. arc, laser)
- Prediction of heat source behaviour and weld zone shape
- Power sources for arc welding
- Thermal cutting
- Surfacing
- Welding robots
- Brazing and soldering
- Joining processes for plastics and ceramics
- Organization of welding plants.



- Category B: Materials Behaviour and Weldability

This category covers more specifically:

- Test methods for assessing weldability
- Characteristics of microstructure/macrostructure
- Choice of material according to service condition (e.g. wear, corrosion, creep)
- Structure-property relationships
- Prediction/modelling of metallographic structures (weld metal and HAZ)
- Cracking in weld zone area and other defects.

- Category C: Design and Structural Integrity

This category covers more specifically:

- Joint design
- Behaviour of welded structures under different mechanical loadings (static, fatigue, creep)
- Calculation methods for the design of welded structures
- Modelling of mechanical in-service behaviour of welded joints and welded structures
- Modelling of residual stresses and distortion
- Application of fracture mechanics to welded joints and welded structures
- Non-destructive testing of welds
- Quality assurance
- Fitness for purpose.

- Category D: Human Related Subjects

This category covers more specifically:

- Qualification and certification of personnel
- Health and safety
- Terminology
- Exchange of information
- Economics.

5. Procedure for the Submission of Papers

(a) A publication-ready manuscript of the work in English (**3,000 - 5,000 words**) must be prepared and submitted to the author's National Delegation and to the IIW Secretariat by 30 November of the preceding year (see also clause 8).

(b) Only papers submitted by the appropriate authorities within each National Delegation to the IIW are eligible for the Competition. To this end, any National Delegation may organize an initial competition for papers meeting the requirements defined in paragraphs 2 and 3 above. National Delegations shall establish their own rules for the organization of the initial competition and the selection of the winners. National Delegations may submit up to four papers, per year, for the Competition, **but no more than one paper in each of the four categories** defined in paragraph 3.

The choice of category remains the responsibility of the author and his/her National Delegation.



(c) The complete submission folder must include:

- the manuscript,
- the declaration from the author that his/her paper has not been previously published (or submitted for publication) and is therefore not already protected by copyright. The author will sign the corresponding RD021,
- The chosen Category,
- The wish list of five IIW Working Units to which the paper is deemed to be relevant to. This list will be used both to select the adequate judges and forward the paper to the concerned Chairs to organise a presentation of the paper – whatsoever it is a winning or only nominated paper,
The relevance of Technical Working Units to Henry Granjon Prize categories are listed hereafter as an indication of possible choices
 - **Category A: Joining and fabrication technology**
Panel of Judges: Commissions I, II, III, IV, XII, XVI, XVII, SG-212, SC-AIR, SC-AUTO, SC-MICRO, SC-SHIP
 - **Category B: Materials behaviour and weldability**
Panel of Judges: Commissions II, III, IV, XII, IX, XI, XVI.
 - **Category C: Design and structural integrity**
Panel of Judges: Commissions V, X, XI, XIII, XV.
 - **Category D: Human related subjects**
Panel of Judges: Commissions I, VI, VIII, XIV, XVII, SG-RES.
- A short bio of the main author (less than 1,000 characters) which includes his/her contact information.

6. Validation of submitted papers

The General Secretariat is responsible to check the completeness of candidate submission folders. After consultation of the TMB Chair, the list of relevant Working Units and Category are validated and the voting packages are dispatched to the Jury.

7. Judging

- (a) Four Panels of Judges, one for each of the afore-mentioned categories, will be established, consisting of the Chair of the Technical Management Board (who shall act as the Chair of each panel) and, for each category a selection of the Chairs of the Working Units associated, taking into account the wish list with a maximum of six Chairs selected by Category.
- (b) The Panels will select a winner in each of the four categories by rating the papers, but each Panel will have the right to recommend that no prize be awarded in a given year, owing to an insufficiently high calibre of submitted papers.
- (c) The Judges' decision will be endorsed by the IIW Board of Directors.

8. Information of parties and organisation of steps until the Assembly

The General Secretariat advise the winners and losers with four weeks after the Winter Meetings; concerned winning and awarding Member Societies are also informed.

The letter to winners will include a recommendation to present their paper during the IIW Annual Assembly or Intermediate Meeting held during the year the Prize is awarded. The General Secretariat is responsible to obtain a clear position of the winner whether he/she will present his/her paper and to forward it to the concerned Chair. A feedback is expected from the Chair(s) during the Chair-TMB meeting organised at the concerned Annual Assembly.



9. Awards

The Winners of The Henry Granjon Prize Competition will each receive a plaque from the French Delegation, to be presented at the Opening Ceremony of the following IIW Annual Assembly. The Winners will be invited to attend this Annual Assembly, for which their registration fees will be waived.

10. Publication of Award-winning Papers

The Winners of The Henry Granjon Prize will be invited to submit their manuscripts to the Editorial Manager for peer-review. The Winner must be the first author of his/her manuscript.

In order to be published in *Welding in the World*, the paper (i.e. the complete final manuscript) must be drafted according to the requirements of RD308 and successfully pass the peer review process.

Any paper deemed un-publishable will be returned to its author.

11. Additional Privileges

(a) National Delegations are encouraged to assist the Winners of the Henry Granjon Prize to attend the IIW Annual Assembly by providing financial support or other travel assistance.

(b) National Delegations are encouraged to lend assistance by offering the Winners of The Henry Granjon Prize the opportunity to visit institutions and laboratories affiliated to the IIW.

12. Reference Documents

RD021 Author's authorization for publication of a document by IIW

<http://www.springer.com/materials/special+types/journal/40194> "Instructions for authors"