



RD type	Policy	PAGE 1 5
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# Rules for Henry Granjon Award

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## WORKFLOW AND RESPONSIBILITIES

PREPARATION/REVIEW	VERIFICATION/ISSUER	APPROBATION/VALIDATION	TARGET USER GROUP(S)
IIW General Secretariat	CEO	Technical Management Board	IIW Member Society Representative; Board of Directors; Technical Management Board; Chair Technical Working Unit
DEPENDENCIES			
DOCUMENT(S) TO REFER: [Documents in reference]		APPENDED DOCUMENT(S): [Appended Documents]	



## 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 Award.

A metallurgist by training and a pupil of Prof. Portevin, Henry Granjon, had attended the London Conference in 1947 as a young man. In 1951, on the creation of Commission XIV Welding Instruction he became its first Vice-Chairman, a position for which he was highly qualified by his functions as Director of Studies at the ESSA Graduate School of Welding Engineering in Paris, where he constantly conveyed his passion for welding metallurgy to all his students. He also served on Commission IX Behaviour of Metals subjected to Welding and, in 1967, became its Chairman. He served as the IIW Scientific and Technical Secretary (SST) from 1974 up to his retirement in 1986.

At the Bratislava Assembly in 1979 he was awarded the Edström Medal not only in recognition for his work as Scientific and Technical Secretary since 1974 but also for the substantial contribution which he made from 1948 to 1974.

The Henry Granjon Award sponsored by the French Delegation 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

Each winner of The Henry Granjon Prize Competition receives a plaque from the French Delegation.

The award is presented at the Opening Ceremony of the IIW Annual Assembly.

The winners are invited to attend this Annual Assembly, for which their registration fees are waived.

The winners of The Henry Granjon Prize are 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 RD-691 and successfully pass the peer review process.

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

### In addition

- 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.
- 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.

## 2 Eligibility

To be eligible for the Competition,

- Papers submitted must:



- be original scientific papers (theses, research reports, state-of-the-art surveys, etc.)
- not have been previously published, and
- made available for publication in Welding in the World
- be based on recent work carried out at a University or an equivalent educational institution, or in industry.
- This work must form part of either:
  - a master's or doctoral degree project, or
  - an industrial project at an equivalent technical level.

### 3 Nomination procedure

Only papers submitted by the appropriate authorities within each National Delegation to the IIW are eligible for the Competition. To this end, each National Delegation may organise an initial competition for papers meeting the requirements defined above. National Delegations shall establish their own rules for the organisation of the initial competition and the selection of the winners.

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 and 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 the 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.

National Delegations may submit up to four papers per year for the Competition, but not more than one paper in each of the four categories defined above.

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

Application files for the Henry Granjon Award must contain the following elements:

1. A publication-ready manuscript of the work in English (3,000 - 5,000 words)
2. 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 must sign RD 631 Authorship, Originality, and Copyright Transfer Agreement.
3. The chosen Category
4. 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 Chair(s) to organise a presentation of the paper – whether it be a winning or only a nominated paper
5. A short bio of the main author (less than 1,000 characters) that includes his/her contact information

## 4 Panel of judges

Four Panels of Judges, one for each of the above-mentioned categories, will be established, consisting of the Chair of the Working Group Technical Working Units (WG-TWU), who shall act as the Chair of each panel and, for each category, a selection from among all Chairs of Technical Working Units.

The membership of the Panels is made under the authority of the WG-TWU Chair and must be guided by:

1. The relevance of Technical Working Units to Henry Granjon Prize categories (the choice is not limited to those listed and is at the discretion of the WG-TWU Chair):
  - Category A: Joining and fabrication technology



Commissions I, II, III, IV, VII, XII, XVI, XVII

- Category B: Materials behaviour and weldability

Commissions II, III, IV, XII, IX, XI, XVI.

- Category C: Design and structural integrity

Commissions V, X, XI, XIII, XV.

- Category D: Industrial Support

Commissions VI, VIII, XIV, , XVIII

2. Their confirmation of participation to the vote.

## 5 Selection Procedure

The Panels will select a winner in each of the four categories by rating the papers.

Each Panel has the right to recommend that no prize be awarded in a given year, if no paper is deemed appropriate for the award.

Results will be reviewed by voting during the WG-TWU's Winter meeting. If no consensus is reached, another vote in session may be proposed.,

The decision of WG-TWU is submitted for endorsement by the IIW TMB and then for endorsement by the IIW Board of Directors..