

EVALUATION CRITERIA FOR VARIOUS AWARDS PRESENTED AT THE NATIONAL WELDING SEMINAR AND INTERNATIONAL WELDING CONFERENCES

Report from the IIW, Technical Committee May-June 1994

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of The Indian Institute of Welding)

A panel of Judges was formed, with a minimum of four Judges for each award. The selection of Judges was done very carefully taking into view their expertise in the field. It is proposed that the panel of Judges be further expanded from next year to make it a minimum of seven evaluations per award. The advice of the Council is solicited for expanding the panel of experts.

EVALUATION CRITERIA

FOR

- (1) I. T. Mirchandani Memorial & H.D. Govindraj Memorial Research Award.
- (2) Mrs. D. M. Panthaki Award - Non-Ferrous Welding (Research),
- (3) NUCOR Group Award (Development/Analysis)

Weightages for (1) & (2) : Why - 20%, How - 50%, What - 30%

Weightage for (3) : Why - 10%, How - 60%, What - 30%

WHY

Definition of the work - its objective, scope and need.

Is the purpose well-defined?

Is the work original?

Is the industrial and/or academic significance of the work outlined?

Are the expected benefits - qualitative or quantitative - described?

HOW

Originality of concept and approach in investigating the problem. How scientific and systematic is the approach?

Literature survey. Quality of survey done? Is the nature of information

collected sufficient and relevant? Comparison between the present and published data? Any important observations made from the comparison?

Innovation or ingenuity in setting up of experimental facilities for carrying out investigations. Any important additional information generated from this innovative method which otherwise would not have been possible?

Appropriateness of the experimental/analytical methods employed. Accuracy of the results obtained? Any better experimental methods available?

WHAT

Data interpretation and analysis. Is the method of data analysis the most appropriate?

How logical are the conclusions? Their relevance to the objectives specified by the author/s.

Other findings, if any, of importance other than what was specified, as a by-product during the course of investigations.

Overall style and effectiveness in paper writing.

FOR

- (4) Mrs. D. M. Panthaki award - Non-Ferrous Welding (Fabrication)
- (5) K.C.P. Award For Fabrication
- (6) MODI Award For the Development of Welding Systems.
- (7) NUCOR Group Award (Quality Assurance)

Weightages for :

(4), (5) : Why - 20%, How-40%, What - 40%

(6) : Why - 10%, How-40%, What-50%

(7) : Why - 10%, How-60%, What-30%

WHY

Purpose/Objective of the fabrication/repair and its industrial importance.

Benefits visualised through lower costs and higher functional efficiency.

Clearly defined planning and scope of work.

HOW

Originality of approach/novelty of design

Ingenuity in the use of materials and adoption of welding process.

Innovation or ingenuity in setting up work, adopting procedures for higher productivity/quality.

Method of fabrication/repair/execution of project - how technically correct and systematic is it?

Final inspection/test data and performance analysis.

WHAT

Accuracy of the results in terms of cost savings, functional efficiency, with reference to the objectives specified by the author.

Other findings, if any, of importance besides what was specified, as a by-product during the course of the work.

Overall writing style and effectiveness in communication.