



CHARLES HATCHETT AWARD REGULATIONS

1. Description of Award

- 1.1 In January 1979, the Metals Society, now the Institute of Materials, Minerals and Mining (IOM3), accepted an invitation from Companhia Brasileira de Metalurgia e Mineração (CBMM) to present an annual Award to the author(s) of the most outstanding paper on the metallurgy of niobium and niobium-based materials.
- 1.2 The Award, named after Charles Hatchett, the English scientist who discovered the metal in 1801, comprises an engraved niobium medal and a visit to Brazil, financed by CBMM, to their site at Araxá and other Brazilian industrial and research establishments.
- 1.3 CBMM, in collaboration with IOM3, sponsor this Award as part of their world-wide policy of supporting research and development in all aspects of niobium extraction and production, and in the manufacture and application of materials containing niobium.
- 1.4 Beta Technology in the UK manage and provide the Secretariat for the Charles Hatchett Award. The Secretariat consists of Beta Technology experts and administrators plus the Chair of the International Consultative Panel.

2. Subject Area of Award

- 2.1 The Charles Hatchett Award is made annually to the author(s) of the best paper, published over a previous two year period, ending on 31st August in the year prior to the Award, in the general area of the science, production and application of niobium-based materials. Publication is defined as the earliest date on which the paper became available on-line or as part of a journal/conference proceedings.
- 2.2 More specifically, all aspects of the production and application of niobium-based materials are eligible including:
 - (a) Extraction and refining: materials containing niobium;
 - (b) Processing and fabrication of finished and semi-finished products containing niobium;
 - (c) Fundamental metallurgy and physical metallurgy of niobium and its alloys;
 - (d) Application of niobium alloys, oxides and other compounds: in important sectors such as oil and gas, aerospace, automotive, construction, biomedical, electronics etc.;
 - (e) Use of niobium in coatings to locally enhance properties, for example corrosion or wear resistance.
- 2.3 Eligible papers should be published in English. They should have sound scientific basis and show good research methodology and experimentation. The papers should also provide important scientific and technological results, and should describe commercial applications, or potential applications, of niobium containing materials.

- 2.4 Award-winning papers are likely to have made a significant contribution to scientific knowledge and the results of the research should have the potential to make a major technical, technological, commercial, environmental or other sustainability-related impact on important industrial sectors.
- 2.5 Innovative products, processes or applications may preclude publication, but in exceptional circumstances, University theses, patents and internal reports could be eligible for consideration.

3. Constitution of the International Consultative Panel

- 3.1 An International Consultative Panel of not less than six and no more than nine members is appointed by the Secretariat, for a period of three years. Members may not serve consecutive three year terms but may be re-appointed after a minimum three year period as non-members.
- 3.2 CBMM appoints the Chair of the International Consultative Panel. The Chair is a full member of the panel but the appointment is not covered by the three year rule.

4. Selection of Papers

- 4.1 The Secretariat will obtain relevant papers from major international scientific journals, conference proceedings and publications from sectors dealing with the design, processing and application of materials and products containing niobium. International Panel members may bring papers of their own choice to the attention of the Secretariat. Papers may also be submitted via the Charles Hatchett Award website. Authors may submit their own papers.
- 4.2 Papers authored by agents, employees or consultants of CBMM are not eligible to win the Charles Hatchett Award. Papers authored by members of the International Consultative Panel are also not eligible. However, papers containing work that has received financial support from CBMM are eligible.
- 4.3 The Secretariat arrives at a shortlist of a minimum of five papers to be sent to the International Panel members for adjudication to determine the winner(s) of the Charles Hatchett Award. However, in exceptional circumstances there may be fewer in order to maintain the quality of the shortlist. Related papers on the same topic by the same author(s) may be selected by the Secretariat to be considered as a single entry.
- 4.4 From the distributed shortlist, the International Panel members will be required to select the best three papers in order of preference. They may indicate if they consider any one paper to be outstanding.
- 4.5 Based on the preferences expressed by the International Panel members, the Chair will determine the winner(s) of the Charles Hatchett Award.
- 4.6 If a clear winner does not emerge, the Chair will determine the Award-winning paper in consultation with the International Panel.
- 4.7 The Chair will ensure, prior to any public announcement, that the proposed winner(s) agree to accept the Award. If, for any reason, this acceptance is not forthcoming, the next most meritorious paper will be selected.
- 4.8 The final decision is ratified by the Council of the IOM3.

5. Procedure for Prize Award

- 5.1 The author(s) of the prize winning paper shall be deemed Charles Hatchett Award winners and will receive an engraved niobium medal.
- 5.2 The Award winner(s) will receive the Charles Hatchett medal from the President, or other nominated official, at the IOM3's Annual Premier Awards Dinner, held in the UK.
- 5.3 CBMM will pay the travel, accommodation and subsistence costs for each author to attend the IOM3 Annual Dinner.
- 5.4 On the day following the presentation of the Award, a Charles Hatchett Seminar on a subject related to the winning paper takes place. This is sponsored by CBMM and organised by Beta Technology.
- 5.5 At this event, the winning author(s) are required to make a presentation of the results in the winning paper. This presentation will be recorded and made available on the Charles Hatchett website.
- 5.6 The lead author of the winning paper will be invited to Brazil for a period of about 10 days to visit the CBMM site at Araxá and industrial, research and/or academic centres in Brazil. It is anticipated that the Award winner will have some free time at their disposal and the duration of the trip can be extended by mutual agreement.
- 5.7 CBMM undertakes to fund all travelling expenses for the visit and all accommodation and travelling expenses whilst in Brazil.
- 5.8 At its discretion, CBMM may extend the invitation to other authors of the winning paper.
- 5.9 The author(s) may be requested to make a presentation of their work to a gathering of relevant professionals during their visit to Brazil.
- 5.10 CBMM, in cooperation with Beta Technology, will take administrative responsibility for organising the visit to Brazil and the Award presentation in the UK.
- 5.11 For Brazilian Award winners, the prize will be a visit of up to 10 days to elsewhere in the world, at the discretion of CBMM. Relevant travelling and accommodation expenses will be funded by CBMM and appropriate visits will be agreed in discussions between the recipient and CBMM.