



THE
OPERATIONAL
RESEARCH
SOCIETY

OPERATIONAL RESEARCH SOCIETY MEDAL GUIDELINES

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THIS DOCUMENT CONTAINS 50 PAGES INCLUDING TITLE PAGE

Introduction

This document lays out the guidelines for all the OR Society's medals and awards.

In the main, the Society's awards are administered by the Awards Panel which is formally appointed by the Board. The process for selecting Beale medal winners and new Companions has been allocated to the President Elect / Past President's committee as this should have more experience and knowledge of the OR community to select winners. The processes for these awards are still documented here.

Beale Medal

Introduction

This award is named in memory of E M L Beale. It is designed to give formal recognition to a sustained contribution by one person to Operational Research in the United Kingdom.

The President Elect's / Past President's Committee (PEC/PPC) takes responsibility for this award.

Eligibility

All persons other than members of the President Elect / Past President's committee (PE/PPC) who, at the time of application, have at least ten years' working experience, based in the United Kingdom, of Operational Research in industry, commerce, government, or in a University teaching or research post, are eligible for consideration. Existing holders of the Beale Medal may be considered, provided that the contribution forming the subject of the entry is in a different area or is substantially differentiated from the basis of the previous award in some other manner.

Award

The award shall consist of a medal cast in bronze and appropriately inscribed, together with an appropriate citation. No more than one Beale Medal may be awarded in any year.

Entry

Candidates may nominate themselves, be nominated by a member of the Operational Research Society, or be nominated by the President Elect's / Past President's Committee. In respect of each nominee the required submission is a statement describing the sustained contribution made by the candidate to Operational Research, which must have extended over a period of at least five years. The contribution may be to the philosophy, theory or practice of Operational Research, or to some combination of those areas. The contribution must be such as to have advanced significantly the knowledge, understanding or practice of the subject. The statement must be endorsed by at least six independent sponsors, who shall be members of the Operational Research Society and shall have appended their names and signatures to it.

Selection

In any year, the award will be made to the individual who, in the opinion of the PE/PPC, has made the most outstanding sustained contribution to Operational Research. The committee may, if necessary, take advice from outside specialists in the field, who are independent of the nominee. The decision remains the responsibility of the committee alone. The committee may decline to make an award if it considers that none of the entries is of sufficient merit.

Independence of Committee Members

During their term of office, members of the President Elect / Past President's committee may make nominations, but they may NOT sponsor nominees.

Procedures

The whole process is the responsibility of the President Elect / Past President's committee.

A call for nominations shall be published in February issue of *Inside OR*, distributed to members at the end of January.

The President Elect / Past President will make an announcement at the March / April meeting of General Council, asking for nominations (in the strictest confidence). PE/PPC may use this occasion as an opportunity to meet to discuss nominations and to seek proposers where not already suggested.

PE/PPC may request suggestions from appropriate quarters which might include the committees of Regional Societies and Special Interest Groups. The PEC/PPC will also itself generate the names of possible medalists. The entire above procedure should be on terms of strictest confidentiality. No-one (including possible medalists) outside the committee should be informed of what names were under consideration.

Suggested names should be accompanied by the supporting statement and the sponsors' endorsements. The closing date for receipt of nominations shall be 30th April to allow the PEC/PPC to discuss them at Board/General Council/Committee meetings.

PE/PPC should remove any ineligible nominations and create a shortlist for the award, ensuring that all the necessary paperwork has been submitted. The shortlists should be emailed to Board members to ensure there are no unforeseen 'issues' with the candidates, and for comments which might help the committee prioritise the shortlist. Again, these comments must be given in the strictest confidence.

The committee shall convey its decision and supply a citation to the Research & Publications Officer no later than 10th October.

The Research & Publications Officer shall then inform the candidate(s) of the outcome and arrange for the award to be announced in *Inside OR* and for the certificate(s) to be made. The presentation shall normally take place at the Blakett Lecture.

It is current practice that announcements relating to the Beale Medal shall be published on the Society's website as well as in *Inside OR*.

Companionship of Operational Research

Introduction

The Companionship of Operational Research should be awarded for sustained support and encouragement for the development of Operational Research or for those in influential positions who are in broad sympathy with the subject area. Such contributions might be through public or private activities.

The President Elect's / Past President's Committee (PEC/PPC) takes responsibility for this award.

Selection/Eligibility

Companions are normally expected to fall within one of the following categories:

- a) Senior managers in the private sector or public sector (including government) who have a record of long term encouragement of OR within their own organisations. This category includes senior figures in consultancy firms with a strong OR component. A positive factor is evidence of personal involvement in OR Society events.
- b) Senior non-OR academics who have a record of long-term encouragement for operational research within their own institutions. These should normally be at or near Vice-Chancellor level.
- c) Eminent persons in related disciplines. (Statistics, economics, computing, systems are among those which are likely candidates.) A potential candidate might be expected already to have received some recognition as leader in his or her field.
- d) Noted public figures. This excludes active politicians. However ex-politicians (for example, those rehabilitated by lengthy service in the House of Lords) might be considered.
- e) Those who have given outstanding or otherwise inadequately recognised service to the OR Society. A positive factor is involvement in international OR societies. Ex-Presidents are normally excluded until after a further extended period of service to the Society or the subject.
- f) Leaders of Operational Research societies in foreign countries.

Those who hold the Society's Silver/Beale Medal should not *normally* be considered for Companionship of Operational Research.

Award

Council resolution 16 December 1997 determined that:

- all future Companions shall receive a scroll;
- all existing and future Companions shall receive an annual invitation to the Blackett Lecture and the dinner following;
- existing Companions shall retain the right to free attendance at ORS conferences, but this right is not extended to future Companions; and
- all existing and future Companions shall be offered the option of honorary membership for life under the terms of Article 7 (which does not confer voting rights).

Procedures

The whole process is the responsibility of the President Elect / Past President's committee.

A call for nominations shall be published in February issue of *Inside OR*, distributed to members at the end of January.

The President Elect / Past President will make an announcement at the March / April meeting of General Council, asking for nominations (in the strictest confidence). PE/PPC may use this occasion as an opportunity to meet to discuss nominations and to seek proposers where not already suggested.

PE/PPC may request suggestions from appropriate quarters which might include the committees of Regional Societies and Special Interest Groups. The PEC/PPC will also itself generate the names of possible Companions. The entire above procedure should be on terms of strictest confidentiality. No-one (including possible Companions) outside the committee should be informed of what names were under consideration.

Suggested names should be accompanied by a brief supporting statement. The closing date for receipt of nominations shall be 30th April to allow the PEC/PPC to discuss them at Board/General Council/Committee meetings.

PE/PPC should remove any ineligible nominations and create a shortlist for the award, ensuring that all the necessary paperwork has been submitted. The shortlists should be emailed to Board members to ensure there are no unforeseen 'issues' with the candidates, and for comments which might help the committee prioritise the shortlist. Again, these comments must be given in the strictest confidence.

The committee shall convey its decision and supply a citation to the Research & Publications Officer no later than 10th October.

The Research & Publications Officer shall then inform the candidate(s) of the outcome, asking if they are willing to accept the award, then arrange for the award to be announced in *Inside OR* and for the certificate(s) to be made. The presentation shall normally take place at the Blackett Lecture.

It is current practice that announcements relating to the Companionships shall be published on the Society's website as well as in *Inside OR*.

President's Medal

Introduction

The President's Medal is awarded for the best account of successful OR practice entered for the competition and presented at the Society's Annual Conference.

Eligibility

Anyone who has experience of OR practice, and is able to provide verification of the work that they are presenting as a piece of real practice which they have undertaken, may enter. If an author has been awarded a President's Medal on a previous occasion, this does not debar the contribution from consideration.

Award

The award shall consist of a medal, cast in bronze and suitably inscribed, together with an appropriate citation. If the contribution selected for the award is the product of more than one author, then all authors will receive the appropriate award, but the citation will make clear that this is a shared award.

Entry

Candidates must, in the first instance, make a submission not exceeding two sides of A4, describing the piece of successful real OR practice which forms the subject of the entry. This is to be accompanied by names and contact details of two referees, one a member of the Operational Research Society, the other a client, who are in a position to testify as to the accuracy of the submission and the fact that the work described was done by the candidate(s).

Members of the Awards Panel may be required to stimulate the submission of papers from time to time. This could be through the Heads of OR Forum, or via the conference Stream Organisers for example. Flyers inviting entries will generally be placed in *Inside OR* in the months of January through to May (if necessary) prior to each conference.

One member of the Panel may be required to act as a point of contact to answer any queries arising.

Selection

Finalists will be selected by the Awards Panel from among those entering, on the basis of the outline submissions and references. The criteria for assessment shall include:

- The level of demonstrable benefit
- The impact and innovation
- The likely longevity of the solution
- The excellence of the OR process
- The intellectual and novel content of the solution

Priority will be given to recent, successfully implemented work.

The award of the President's Medal will be determined at the annual conference by a judging panel which shall review the submitted material and listen to the presentations of their work that the finalists are required to make at the conference. The medal will be awarded for the entry which in the judgement of the panel makes the best contribution to the practice of Operational Research, taking into account the submitted material, the quality of the work, the quality of the presentation and the opinion of the audience, which shall be sought.

Conditions

Conditions of the award are that:

- finalists will present their work at the Operational Research Society's annual conference.
- unless inappropriate the author(s) of the winning paper will facilitate the writing up of their work, if necessary with the help of a journalist, with a view to publication in *OR Insight* or *Inside OR* and as part of a booklet promoting the award.

Procedures

The award will be advertised each year in *Inside OR*. The closing date for the receipt of submissions will be 30th June. The Awards Panel will select the finalists by 31st July and will convey their decisions the Research & Publications Officer, who shall notify the candidates and the annual conference committee of the decisions. Finalists will be reminded of the requirement to present their work at the annual conference.

A special judging panel will decide on the award of the medal. This panel shall consist of the (1) President or the President Elect / Immediate Past President; (2) a disinterested senior practitioner; (3) a further disinterested practitioner. The Chair of the Awards Panel is responsible for organising the finalists and chairing the judging panel. The winner will be announced at the annual conference and the award will normally be presented at the Blakett Lecture.

Current Awards Panel practice

At the September meeting the publicity programme is determined. Publicity is generally published in January to May issues of *Inside OR*.

The deadline for entries is **30th June**.

After 30th June the Research & Publications Officer acknowledges receipt of entries. Members of Awards Panel review entries via email in July to select finalists to go forward for presentation at the annual conference. Research & Publications Officer informs all candidates of decisions. Members of the panel of judges are selected by the President.

At the annual conference, the selected entries are presented. The judging panel decides the winner and announces its decision at the conference dinner.

No later than 10th October a citation is sent to Research & Publications Officer together with the name(s) of the winner(s). Medals are ordered for presentation at the Blakett Lecture.

It is current practice that announcements relating to the President's Medal shall be published on the Society's website as well as in *Inside OR*.

Goodeve Medal

Introduction

This award was named in memory of Sir Charles Goodeve, one of the founders and pioneers of civilian Operational Research after World War 2, and a leader for many years of the OR Club and Society.

The Goodeve Medal is awarded in recognition of the most outstanding contribution to the philosophy, theory or practice of OR published in the Journal of the OR Society (JORS) within the relevant year.

Eligibility

Only contributions to the preceding year's volume of the relevant journals may be considered. Contributions having a member of the Awards Panel as an author are eligible; however that member should withdraw from the judging and subsequent decision. There are no other restrictions on the eligibility of authors. If an author has been awarded a Goodeve Medal on a previous occasion, this does not debar the contribution from consideration.

Award

The award shall consist of a medal, cast in bronze and suitably engraved, together with an appropriate citation. If the contribution selected for the award is the product of more than one author, then all authors will receive the appropriate award, but the citation will make clear that this is a shared award.

Entry

No entry is required. The Awards Panel will consider all eligible contributions as a matter of course.

Selection

The Goodeve Medal will be awarded to the contribution which in the judgement of the Awards Panel makes the most outstanding contribution to the philosophy, theory or practice of

Operational Research. If the Awards Panel judges that none of the eligible contributions reaches a sufficiently high standard of excellence to merit the award of a Goodeve Medal, then no award shall be made.

Procedures

A reviewing sub-panel consisting of two or three members of the full Awards panel will be appointed. It is the responsibility of the reviewing sub-panel to scan all the issues of the relevant journals for the previous year, in order to make a recommendation to the Awards panel. The full Awards panel shall resolve any 'deadlock' in the rankings. The panel shall arrive at its final decision no later than 30th September. The Chair of the Awards Panel shall, no later than 10th October, forward to the Research & Publications Officer the name(s) of the winner(s), if any, and the citation. The Research & Publications Officer shall then inform the winner(s) and arrange for the award to be announced in *Inside OR* and for the medals to be made. The presentation of medals shall normally take place at the Blackett Lecture.

Current Awards Panel practice

January:

Allocate reviewing tasks to the members of reviewing sub-panel, who are each charged with producing, **by 31st May**, a shortlist of potential winners from the issues they have reviewed. Each issue should be considered by at least two of the reviewers. The relevant editors will also be asked to submit a shortlist of 'worthy' papers.

June virtual meeting (via email):

Initial shortlists from the reviewing sub-panel and the editors' recommendations are combined. If a member of the sub-panel has emerged as a short-listed author, they must be replaced at this stage. The members of the sub-panel review all the shortlisted papers and produce rankings by **31st August**.

The following criteria are used:

- impact on the real world, including OR / IS community (actual impact)
- relevance to the real world (potential impact)
- degree of innovation

- quality of technical content
- quality of writing.

Each reviewing sub-panel member ranks each paper on a 1 – 5 scale under each criterion. The scores are aggregated to obtain an initial ranking, which is then discussed in order to arrive at a final ranking. If the discussions between the sub-panel members cannot be concluded satisfactorily, the debate is opened up to the full Awards panel. In order to help resolve disputes, referees' reports may be obtained for the relevant papers.

September meeting:

The Awards panel reviews the rankings and determines a winner. A citation is prepared and forwarded to the Research & Publications Officer together with the name(s) of the winner(s) by **10th October**. Research & Publications Officer orders medals for presentation at the Blakett Lecture.

It is current practice that announcements relating to the Goodeve Medal shall be published on the Society's website as well as in *Inside OR*.

Stafford Beer Medal

Introduction

This award is named in memory of Stafford Beer, a world leader in the development of systems ideas, especially management cybernetics, and President of the OR Society 1970-71.

The Stafford Beer Medal is awarded in recognition of the most outstanding contribution to the philosophy, theory or practice of Information Systems published in the European Journal of Information Systems (EJIS) within the relevant year.

Eligibility

Only contributions to the preceding year's volume of the relevant journal may be considered. Contributions having a member of the Awards Panel as an author are eligible; however that member should withdraw from the judging and subsequent decision. There are no other restrictions on the eligibility of authors. If an author has been awarded a Stafford Beer Medal on a previous occasion, this does not debar the contribution from consideration.

Award

The award shall consist of a medal, cast in bronze and suitably engraved, together with an appropriate citation. If the contribution selected for the award is the product of more than one author, then all authors will receive the appropriate award, but the citation will make clear that this is a shared award.

Entry

No entry is required. The Awards Panel will consider all eligible contributions as a matter of course.

Selection

The Stafford Beer Medal will be awarded to the contribution which in the judgement of the Awards Panel makes the most outstanding contribution to the philosophy, theory or practice of Information Systems. If the Awards Panel judges that none of the eligible contributions reaches a

sufficiently high standard of excellence to merit the award of a Stafford Beer Medal, then no award shall be made.

Procedures

A reviewing sub-panel consisting of two or three members of the full Awards panel will be appointed. It is the responsibility of the reviewing sub-panel to scan all the issues of the relevant journals for the previous year, in order to make a recommendation to the Awards panel. The full Awards panel shall resolve any 'deadlock' in the rankings. The panel shall arrive at its final decision no later than 30th September. The Chair of the Awards Panel shall, no later than 10th October, forward to the Research & Publications Officer the name(s) of the winner(s), if any, and the citation. The Research & Publications Officer shall then inform the winner(s) and arrange for the award to be announced in *Inside OR* and for the medals to be made. The presentation of medals shall normally take place at the Blackett Lecture.

Current Awards Panel practice

January:

Allocate reviewing tasks to the members of reviewing sub-panel, who are each charged with producing, **by 31st May**, a shortlist of potential winners from the issues they have reviewed. The relevant editors will also be asked to submit a shortlist of 'worthy' papers.

June virtual meeting (via email):

Initial shortlists from the reviewing sub-panel and the editors' recommendations are combined. If a member of the sub-panel has emerged as a short-listed author, they must be replaced at this stage. The members of the sub-panel review all the shortlisted papers and produce rankings by **31st August**.

The following criteria are used:

- impact on the real world, including OR / IS community (actual impact)
- relevance to the real world (potential impact)
- degree of innovation
- quality of technical content
- quality of writing.

Each reviewing sub-panel member ranks each paper on a 1 – 5 scale under each criterion. The scores are aggregated to obtain an initial ranking, which is then discussed in order to arrive at a final ranking. If the discussions between the sub-panel members cannot be concluded satisfactorily, the debate is opened up to the full Awards panel. In order to help resolve disputes, referees' reports may be obtained for the relevant papers.

September meeting:

The Awards panel reviews the rankings and determines a winner. A citation is prepared and forwarded to the Research & Publications Officer together with the name(s) of the winner(s) by **10th October**. Research & Publications Officer orders medals for presentation at the Blakett Lecture.

It is current practice that announcements relating to the Stafford Beer Medal shall be published on the Society's website as well as in *Inside OR*.

Cook Medal

Introduction

This award is named in memory of Steve Cook.

The Cook Medal is awarded in recognition of the most outstanding contribution to the philosophy, theory or practice of Knowledge Management published in Knowledge Management Research & Practice (KMRP) within the relevant two year period.

Eligibility

Only contributions to the preceding two year's volumes of the relevant journal may be considered. Contributions having a member of the Awards Panel as an author are eligible; however that member should withdraw from the judging and subsequent decision. There are no other restrictions on the eligibility of authors. If an author has been awarded a Cook Medal on a previous occasion, this does not debar the contribution from consideration.

Award

The award shall consist of a medal, cast in bronze and suitably engraved, together with an appropriate citation. If the contribution selected for the award is the product of more than one author, then all authors will receive the appropriate award, but the citation will make clear that this is a shared award.

Entry

No entry is required. The Awards Panel will consider all eligible contributions as a matter of course.

Selection

The Cook Medal will be awarded to the contribution which in the judgement of the Awards Panel makes the most outstanding contribution to the philosophy, theory or practice of Knowledge Management. If the Awards Panel judges that none of the eligible contributions reaches a

sufficiently high standard of excellence to merit the award of a Cook Medal, then no award shall be made.

Procedures

A reviewing sub-panel consisting of two or three members of the full Awards panel will be appointed. It is the responsibility of the reviewing sub-panel to scan all the issues of the relevant journals for the previous year, in order to make a recommendation to the Awards panel. The full Awards panel shall resolve any 'deadlock' in the rankings. The panel shall arrive at its final decision no later than 30th September. The Chair of the Awards Panel shall, no later than 10th October, forward to the Research & Publications Officer the name(s) of the winner(s), if any, and the citation. The Research & Publications Officer shall then inform the winner(s) and arrange for the award to be announced in *Inside OR* and for the medals to be made. The presentation of medals shall normally take place at the Blackett Lecture.

Current Awards Panel practice

January:

Allocate reviewing tasks to the members of reviewing sub-panel, who are each charged with producing, **by 31st May**, a shortlist of potential winners from the issues they have reviewed. The relevant editors will also be asked to submit a shortlist of 'worthy' papers.

June virtual meeting (via email):

Initial shortlists from the reviewing sub-panel and the editors' recommendations are combined. If a member of the sub-panel has emerged as a short-listed author, they must be replaced at this stage. The members of the sub-panel review all the shortlisted papers and produce rankings by **31st August**.

The following criteria are used:

- impact on the real world, including OR / IS community (actual impact)
- relevance to the real world (potential impact)
- degree of innovation
- quality of technical content
- quality of writing.

Each reviewing sub-panel member ranks each paper on a 1 – 5 scale under each criterion. The scores are aggregated to obtain an initial ranking, which is then discussed in order to arrive at a final ranking. If the discussions between the sub-panel members cannot be concluded satisfactorily, the debate is opened up to the full Awards panel. In order to help resolve disputes, referees' reports may be obtained for the relevant papers.

September meeting:

The Awards panel reviews the rankings and determines a winner. A citation is prepared and forwarded to the Research & Publications Officer together with the name(s) of the winner(s) by **10th October**. Research & Publications Officer orders medals for presentation at the Blakett Lecture.

It is current practice that announcements relating to the Cook Medal shall be published on the Society's website as well as in *Inside OR*.

Griffiths Medal

Introduction

The Griffiths Medal is awarded in recognition of the most outstanding contribution to the philosophy, theory or practice of Health Systems published in Health Systems (HS) within the relevant two year period.

Eligibility

Only contributions to the preceding two year's volumes of the relevant journal may be considered. Contributions having a member of the Awards Panel as an author are eligible; however that member should withdraw from the judging and subsequent decision. There are no other restrictions on the eligibility of authors. If an author has been awarded a Griffiths Medal on a previous occasion, this does not debar the contribution from consideration.

Award

The award shall consist of a medal, cast in bronze and suitably engraved, together with an appropriate citation. If the contribution selected for the award is the product of more than one author, then all authors will receive the appropriate award, but the citation will make clear that this is a shared award.

Entry

No entry is required. The Awards Panel will consider all eligible contributions as a matter of course.

Selection

The Griffiths Medal will be awarded to the contribution which in the judgement of the Awards Panel makes the most outstanding contribution to the philosophy, theory or practice of Health Systems. If the Awards Panel judges that none of the eligible contributions reaches a sufficiently high standard of excellence to merit the award of a Griffiths Medal, then no award shall be made.

Procedures

A reviewing sub-panel consisting of two or three members of the full Awards panel will be appointed. It is the responsibility of the reviewing sub-panel to scan all the issues of the relevant journals for the previous year, in order to make a recommendation to the Awards panel. The full Awards panel shall resolve any 'deadlock' in the rankings. The panel shall arrive at its final decision no later than 30th September. The Chair of the Awards Panel shall, no later than 10th October, forward to the Research & Publications Officer the name(s) of the winner(s), if any, and the citation. The Research & Publications Officer shall then inform the winner(s) and arrange for the award to be announced in *Inside OR* and for the medals to be made. The presentation of medals shall normally take place at the Blackett Lecture.

Current Awards Panel practice

January:

Allocate reviewing tasks to the members of reviewing sub-panel, who are each charged with producing, **by 31st May**, a shortlist of potential winners from the issues they have reviewed. The relevant editors will also be asked to submit a shortlist of 'worthy' papers.

June virtual meeting (via email):

Initial shortlists from the reviewing sub-panel and the editors' recommendations are combined. If a member of the sub-panel has emerged as a short-listed author, they must be replaced at this stage. The members of the sub-panel review all the shortlisted papers and produce rankings by **31st August**.

The following criteria are used:

- impact on the real world, including OR / HS community (actual impact)
- relevance to the real world (potential impact)
- degree of innovation
- quality of technical content
- quality of writing.

Each reviewing sub-panel member ranks each paper on a 1 – 5 scale under each criterion. The scores are aggregated to obtain an initial ranking, which is then discussed in order to arrive at a

final ranking. If the discussions between the sub-panel members cannot be concluded satisfactorily, the debate is opened up to the full Awards panel. In order to help resolve disputes, referees' reports may be obtained for the relevant papers.

September meeting:

The Awards panel reviews the rankings and determines a winner. A citation is prepared and forwarded to the Research & Publications Officer together with the name(s) of the winner(s) by **10th October**. Research & Publications Officer orders medals for presentation at the Blakett Lecture.

It is current practice that announcements relating to the Griffiths Medal shall be published on the Society's website as well as in *Inside OR*.

K.D. Tocher Medal

Introduction

This award is named in memory of K.D. Tocher, who made a significant contribution to the field of discrete-event simulation by developing the basis on which much modern software is built via his General Simulation Program. He is the author of "The Art of Simulation" (1963), a formative book in the field.

The K.D. Tocher Medal is awarded in recognition of the most outstanding contribution to the philosophy, theory or practice of simulation published in the Journal of Simulation within the relevant two year period.

Eligibility

Only contributions to the preceding two year's volumes of the relevant journal may be considered. Contributions having a member of the Awards Panel as an author are eligible; however that member should withdraw from the judging and subsequent decision. There are no other restrictions on the eligibility of authors. If an author has been awarded a K.D. Tocher Medal on a previous occasion, this does not debar the contribution from consideration.

Award

The award shall consist of a medal, cast in bronze and suitably engraved, together with an appropriate citation. If the contribution selected for the award is the product of more than one author, then all authors will receive the appropriate award, but the citation will make clear that this is a shared award.

Entry

No entry is required. The Awards Panel will consider all eligible contributions as a matter of course. Editors can nominate papers by other Editors.

Selection

The K.D. Tocher Medal will be awarded to the contribution which in the judgement of the Awards Panel makes the most outstanding contribution to the philosophy, theory or practice of simulation. If the Awards Panel judges that none of the eligible contributions reaches a sufficiently high standard of excellence to merit the award of a K.D. Tocher Medal, then no award shall be made.

Procedures

A reviewing sub-panel consisting of two or three members of the full Awards panel will be appointed. It is the responsibility of the reviewing sub-panel to scan all the issues of the relevant journals for the previous year, in order to make a recommendation to the Awards panel. The full Awards panel shall resolve any 'deadlock' in the rankings. The panel shall arrive at its final decision no later than 30th September. The Chair of the Awards Panel shall, no later than 10th October, forward to the Research & Publications Officer the name(s) of the winner(s), if any, and the citation. The Research & Publications Officer shall then inform the winner(s) and arrange for the award to be announced in *Inside OR* and for the medals to be made. The presentation of medals shall normally take place at the Blackett Lecture.

Current Awards Panel practice

January:

Allocate reviewing tasks to the members of reviewing sub-panel, who are each charged with producing, **by 31st May**, a shortlist of potential winners from the issues they have reviewed. The relevant editors will also be asked to submit a shortlist of 'worthy' papers.

June virtual meeting (via email):

Initial shortlists from the reviewing sub-panel and the editors' recommendations are combined. If a member of the sub-panel has emerged as a short-listed author, they must be replaced at this stage. The members of the sub-panel review all the shortlisted papers and produce rankings by **31st August**.

The following criteria are used:

- impact on the real world, including OR / S community (actual impact)

- relevance to the real world (potential impact)
- degree of innovation
- quality of technical content
- quality of writing.

Each reviewing sub-panel member ranks each paper on a 1 – 5 scale under each criterion. The scores are aggregated to obtain an initial ranking, which is then discussed in order to arrive at a final ranking. If the discussions between the sub-panel members cannot be concluded satisfactorily, the debate is opened up to the full Awards panel. In order to help resolve disputes, referees' reports may be obtained for the relevant papers.

September meeting:

The Awards panel reviews the rankings and determines a winner. A citation is prepared and forwarded to the Research & Publications Officer together with the name(s) of the winner(s) by **10th October**. Research & Publications Officer orders medals for presentation at the Blakett Lecture.

It is current practice that announcements relating to the K.D. Tocher Medal shall be published on the Society's website as well as in *Inside OR*.

Lyn Thomas (Impact) Medal

Introduction

The Lyn Thomas [Impact] Medal is awarded annually for the academic O.R. research which best demonstrates both novelty and real-world impact, backed up by evidence. Impact can be of many forms including societal, economic, cultural, entertainment, health related, political, quality of life, etc. The underpinning research should have been undertaken in the previous ten years and the impact itself must be demonstrable within the past two years.

Eligibility

All academic researchers who are members of the Society and work at UK universities are eligible to enter. Researchers who have been previously awarded an Impact Medal are eligible to apply again, but not for the same research.

Award

The award shall consist of a medal, cast in bronze and suitably inscribed, together with an appropriate citation. If the contribution selected for the award is the product of more than one author, then all authors will receive the appropriate award, but the citation will make clear that this is a shared award.

Entry

Candidates must submit to the Research & Publications Officer a description of their research work and the impact that it has generated. The total page limit is three pages of A4 including references. This document must be accompanied by letter(s) of support on headed paper written by research user(s) who are in a position to confirm the accuracy of the submission and the contribution, impact or benefit of the research outputs. A maximum of five letters of support can be provided. Referees could potentially be approached by the Awards Panel to further corroborate claims.

Selection

The award will be advertised starting from November each year in Inside OR and on the O.R Society website. The closing date for the receipt of submissions is 31 July. Members of the Awards Panel may be required to stimulate the submission of entries through scientific journals

of the O.R Society, the annual Conference Organising Committee, and through other appropriate channels such as COPIOR and the Regional Societies.

The judging sub-panel will be a subset of the Awards Panel and will consist of both academics and practitioners. Additional members may be temporarily co-opted if the sub-panel considers further specific expertise is required. One member of the sub-panel may be asked to act as a point of contact to answer queries from potential applicants or referees. The sub-panel will evaluate the entries submitted and may seek further information from referees before the autumn meeting of the Awards Panel. The award will be presented at the Blakett Lecture.

Assessment Criteria

Entries will be assessed according to the following criteria:

1. The quality and novelty of the underpinning O.R. research, evidenced by publications, theses, conference presentations, working papers or other outputs directly related to the research. The threshold for research quality and novelty will be fairly low: the main focus of this award is on the impact. However, standard applications of existing O.R. methods are not eligible.
2. The reach of the research impact, indicated by how widely it has been felt, the number of beneficiaries, etc. It is important to note that reach is a relative concept: like market share, it refers to the proportion of all possible situations where the solution could be used in which it actually has been used. The absolute size of the “market” for the impact is relevant, but is not the main criterion for assessing reach.
3. The significance of the research impact, indicated by how transformative it has been.
4. The estimated longevity of the research outputs and the sustainability of the impact.

All types of impact listed in the Introduction section are considered equally important, but higher ranking will be given to submissions with reliable evidence of the impact. Evidence may include indicators of impact or contribution and references to external sources of verification. The indicators do not need to be quantitative or financial. However, they should be auditable. References to external sources of verification include external reports or other publicly available information, or contact details of research users that could potentially be asked to corroborate claims.

Proposed Awards Panel Practice

August 1: the Research & Publications Officer forwards all submissions to the sub-panel. Each reviewing sub-panel member then rates each application on a 1 – 5 scale under criteria 2-4 above. Criterion 1 is a “hygiene factor” which may be used either to eliminate invalid submissions (e.g. standard applications of known methods, or research that is not really O.R.) or as a tie-breaker if submissions cannot be separated on the other three criteria.

The scores are aggregated by the sub-panel chair to obtain an initial ranking, which is then discussed by the sub-panel in order to arrive at a final ranking. If the discussions between the sub-panel members cannot be concluded satisfactorily, the debate is opened up to the full Awards panel.

Autumn meeting: The Awards panel reviews the rankings and determines a winner. A citation is prepared by the sub-panel chair and forwarded to the chair of the Awards Panel and then to the Research & Publications Officer, together with the name(s) of the winner(s). The Research & Publications Officer orders medals for presentation at the Blakett Lecture.

The OR Society Doctoral Award

Introduction

The Society has introduced an award for the "Most Distinguished Body of Research leading to the Award of a Doctorate in the field of OR".

Eligibility

The first award will be made at the OR Society Annual Conference in September 2009. This is an annual award with the qualifying period being the calendar year during which the PhD (DPhil) was defended / approved. The qualifying period for nominations runs from 1st January until 31st December for each specific year. The thesis being submitted for consideration must have been examined at a UK University within the relevant time period. The PhD student is NOT required to be a member of the Society.

Award

The winner of the award wins a cash prize of £1500. There could also be **up to** two runners up who would receive £500. In addition the successful candidates would be expected to present their work at the annual conference of the OR Society. A significant contribution towards the cost of the conference would be available to all prize winners. The winner would also have their name engraved on the George Paterson shield as a permanent record of their achievement.

The Committee may decline to make an award if it considers that none of the entries is of sufficient merit.

Entry

There are three elements to this:

1. A nomination from the External Examiner of the thesis. This should be about 750 words in length and illustrate how the work done meets the criteria for this award.
2. An extended abstract written by the student. This should be about 1000 words in length and contain a summary of the work done and how it contributes to the academic development of the subject area. The abstract should be clearly understandable to an

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informed lay reader. A list of published (including those submitted for publication) works as a result of the research should be included as an Appendix.

3. A report from the supervisor of the student. This should contain a list of people involved in the viva.

Selection

The Doctoral Award Selection Committee will meet to produce a shortlist from the entries submitted. The Selection Committee select a winner and up to two runners-up based on refereed reviews of the shortlisted dissertations.

The criteria for the award are as follows:

- How conceptually robust the research is, in terms of all relevant theory from all relevant disciplines
- The level of originality in terms of the synthesis provided, and the new insights it has developed
- How relevant the work is in terms of potential implementation
- The academic/non-academic impact
- Why the methodology adopted during the research is better when compared to alternative approaches to the issues addressed
- The clarity of explanation with appropriate links to all relevant literature
- The extent to which it provides a platform for further related developments
- The overall presentation of the research

Conditions

Conditions of the award are that:

- finalists will present their work at the Operational Research Society's Beale Lecture.

Procedures

The award will be advertised each year in *Inside OR*. The closing date for the receipt of submissions will be 31st January. The Doctoral Award Selection Committee will meet in February to produce a shortlist from the entries submitted. If judged necessary, each dissertation may be sent to two independent referees, selected for their expertise in the particular field of research.

The Selection Committee meet in June to select a winner and up to two runners-up, based on the submitted document and any reports of the referees.

The winner will be notified of the requirement to present their work at the Beale Lecture. The award will normally be presented at the Blackett Lecture.

Current Awards Panel practice

The publicity programme is determined at the Award Panel meeting in September. Relevant copy is submitted for inclusion in *OR Inside*. After 31st January, the Research & Publications Officer acknowledges receipt of entries. Members of Doctoral Award Selection Committee review entries to select a shortlist in February. Referees are selected to review the full dissertations of the shortlist. The Selection Committee meet in June to review the referees' reports and to select the winners.

The winner is invited to present their work at the Society's Beale Lecture.

Citation is sent to Research & Publications Officer. The George Paterson shield (plus individual shield) is engraved for presentation at the Blackett Lecture.

It is current practice that announcements relating to the Doctoral Award shall be published on the Society's website as well as in *Inside OR*.

Donald Hicks Scholarship

Introduction

This scholarship is instituted in memory of Donald Hicks, OBE, a major contributor to Operational Research and the first Treasurer of the OR Society, who died in January 1986.

It is designed to enable a 'young' OR Society member with at least two years' working experience of Operational Research to attend and present a paper at a EURO K or IFORS Triennial Conference.

Eligibility

Persons with no more than ten years' experience in OR (including time spent in postgraduate OR education) who have at least two years' working experience based in the United Kingdom, of Operational Research in industry, commerce, government, or in a University teaching or research post at the time of application are eligible for consideration. Members of the Awards Panel may not apply. No person may win more than one Donald Hicks Scholarship.

The use of 'young' as a descriptor in this award implies no restriction in terms of age, but refers solely to the length of experience in the field.

Value

The scholarship will cover the conference fee, together with reasonable travel and subsistence costs incurred in attending the EURO K or IFORS Triennial Conference in the year of the award, up to a maximum total of £500 in the case of conferences held in Europe and £1000 for other conferences.

Entry

Candidates may nominate themselves, or may be nominated by a member of the Operational Research Society who is a supervisor, head of OR, head of department or occupies some other responsible role. In respect of each nominee the required submission is: a detailed curriculum vitae, names and contact details of two independent referees who must be members of the

Operational Research Society, and an extended abstract of a paper which they intend to present at the conference.

Selection

The scholarship will only be awarded to a 'young' OR worker of outstanding promise. The successful candidate's abstract should show promise of leading to a paper important to the development of OR. Subject to these requirements the Awards Panel shall make the award to the person who it considers, on the basis of the submitted documentation, to be the most meritorious candidate. At its discretion, the Awards Panel may make no offer if it considers that none of the candidates are of sufficient merit.

Independence of Committee Members

During their term of office, members of the Awards Panel may not make nominations, nor may they provide references for nominees.

Conditions

Conditions of the scholarship are that:

- the person to whom the scholarship is awarded has his/her abstract accepted;
- he/she presents a paper, based on the submitted abstract, at the conference;
- he/she submits the paper to one of the Society's refereed journals for publication, unless the paper is to appear in the published proceedings of the conference

All claims for reimbursement of conference fees, and reasonable travel and subsistence costs incurred in attending the IFORS or EURO conference must be fully substantiated by receipts and accompanied by appropriate documentation to show that the above conditions have been fully complied with.

Procedures

Upon receipt from EURO or IFORS of the call for papers for the conference, the Research & Publications Officer shall arrange for an announcement to be published in *Inside OR*, inviting nominations by a date chosen so as to enable the Awards Panel to adjudicate on the applications

and for the successful candidate to be informed by the date on which the Conference Programme Committee announces acceptance of abstracts. The Research & Publications Officer shall acknowledge receipt of all nominations. At the closing date the set of completed nominations will be forwarded to all members of the Awards Panel for consideration and decision. The chair of the Awards Panel shall report the name of the successful nominee to the Research & Publications Officer, who shall inform the candidate and arrange for an appropriate announcement to be placed in OR Newsletter.

Current Awards Panel practice

It is current practice that announcements relating to the Donald Hicks Scholarships shall be published on the Society's website as well as in *Inside OR*.

May Hicks Award

Introduction

The OR Society funds its annual awards for student projects from a generous bequest from the estate of Mrs May Hicks, wife of Donald Hicks, OBE, a major contributor to Operational Research and the first treasurer of The OR Society.

Eligibility

Entries are invited from any eligible courses. Masters courses in OR, Management Sciences or Business Analytics are automatically eligible. Other courses should, before contemplating entry, seek confirmation of their eligibility.

Value

The prizes for the competition will be: 1st prize £1000 plus up to two runners up of £250 each.

Entry

Entries should be made by the Course Director or a faculty member acting on his/her behalf (and not by students direct). One entry per 15 students on the course, or part thereof, is allowed.

Projects entered should be O.R. projects carried out for a client organisation (and not, for example, desk research carried out within the university). Joint projects are allowed.

The initial entry should consist of the following:

- a summary of not more than two pages of the project and its effects;
- endorsement of the project's effectiveness by the organisation which hosted the project; and
- an endorsement by an independent academic (e.g. the external examiner) of the project's quality.

Anonymised (as to the clients) entries will be accepted. In such cases, the endorsement should be submitted as a private communication to the chair of the awards committee.

Selection

The judging panel will shortlist the entries. Project reports may be requested for shortlisted entries, so a final decision can be reached on the winners. The panel may, at their discretion, make site visits or invite students to present their work.

Current Awards Panel Practice

Winners will be encouraged to present their work at an OR Society conference and to publish the work in one of the Society's publications. The OR Society may also publicise the winning entries through its publications and the website.

Entries should be submitted electronically to charlene.timewell@theorsociety.com to arrive **no later than 28th February**.

EURO Summer / Winter Institute Scholarships

Introduction

These scholarships are designed to enable 'young' operational researchers (normally up to two, but the number is subject to stipulations imposed by the particular Institute) to attend and present a paper to the EURO Summer / Winter Institute (ESWI) of the relevant year.

Eligibility

Participation at an ESWI is limited to a group of about 25 early stage researchers, who are either PhD students or who have less than two years research experience since completing a PhD. To be eligible, a candidate must have a single-authored or co-authored paper in the selected field, which has not yet been published, nor accepted for publication. No person may be awarded more than one EURO Summer / Winter Institute Scholarship.

The use of 'young' as a descriptor in this award implies no restriction in terms of age, but refers solely to the length of experience in the field.

Value

The scholarship will cover reasonable travel costs up to a maximum of £500 incurred in attending the EURO Summer / Winter Institute.

(NB. EURO and the host Society for the Institute meet all costs within the host country.)

Entry

Candidates may nominate themselves, or may be nominated by a member of the Operational Research Society who is a supervisor, head of OR, head of department or occupies some other responsible role. In respect of each nominee the required submission is a detailed curriculum vitae, names and contact details of two independent referees who must be members of the Operational Research Society, and a previously unpublished paper written by the candidate and which they intend to present at the Institute.

Selection

Scholarships will only be awarded to 'young' OR workers of considerable promise within the topic of the Institute. The successful candidates' papers should be important to the development of OR within the topic area. The Awards Panel may, if necessary, take advice from an outside specialist in the field, who is independent of all the candidates. The decision remains the responsibility of the committee alone. Subject to the above, the Awards Panel shall award scholarships to the people who are the most meritorious candidates within the topic of the Institute. At its discretion, the Awards Panel may decide not to put forward candidates for all, or any, of the available places if insufficient nominees are of appropriate merit.

Independence of Committee Members

During their term of office, members of the Awards Panel may not make nominations for a scholarship, nor may they provide references for nominees.

Conditions

Conditions of the award are that:

- the nomination shall be accepted by the Academic Committee of the Institute
- the recipients presents the submitted paper at the Institute
- the recipient takes full part in the Institute, including the preparation of papers for the European Journal of Operational Research

All claims for reimbursement of reasonable travel costs incurred in attending the EURO Summer / Winter Institute must be fully substantiated by receipts and accompanied by appropriate documentation to show that the above conditions have been fully complied with.

Procedures

Upon receipt from EURO of the call for papers for the Institute, the Research & Publications Officer shall arrange for an announcement to be published in *Inside OR*, inviting nominations by a date chosen so as to enable the Awards Panel to adjudicate on the applications, for candidate(s) to be informed of the Awards Panel's recommendations and for the successful candidatures to be submitted to the Academic Committee of the Institute by the specified deadline.

Current Awards Panel practice

It is current practice that announcements relating to the EURO Summer / Winter Institutes shall be published on the Society's website as well as in *Inside OR*.

Simpson Scholarships

Introduction

These awards were instituted in memory of Professor Michael George Simpson, President of the OR Society 1978-79 and Head of the Department of OR at Lancaster University, who died in 1983.

They are designed to enable one or two outstanding 'young' operational researchers to attend the OR Society Young OR Conference, and to encourage them to present papers on their work in OR.

Eligibility

Persons with no more than ten years' experience in OR (including time spent in postgraduate OR education) who have at least two years' working experience based in the United Kingdom, of Operational Research in industry, commerce, government, or in a University teaching or research post at the time of application are eligible for consideration. In the case of multiple authorship of a submitted paper, all of the authors must meet these conditions, although only one of the authors will receive the award. Members of the Awards Panel may not apply. No person may be awarded more than one Simpson Scholarship.

The use of 'young' as a descriptor in this award implies no restriction in terms of age, but refers solely to the length of experience in the field.

Value

The award will cover the conference fee, and reasonable travel and subsistence costs incurred in attending the Young OR conference in the year of the award for one of the authors of each selected paper.

Entry

Candidates may nominate themselves, or may be nominated by a member of the Operational Research Society who is a supervisor, head of OR, head of department or occupies some other responsible role. The submission is to comprise an extended abstract of a paper which the author(s) intend to present at the conference, names and contact details of two independent referees, one a member of the Operational Research Society, the other a client unless

inappropriate, who are in a position to testify as to the accuracy of the submission and the fact that the work described was done by the candidate(s). In respect of each candidate a detailed curriculum vitae is required, and in the case of multiple authorship of a submitted paper, the submission must also include a statement detailing the contribution that each author has made to the work described.

Selection

Scholarships may be awarded in respect of up to two submissions which in the judgement of the Awards Panel describe work of the greatest merit. In the case of multiple authorship, the committee may at its discretion award the scholarship to the author who, in the committee's view, is most deserving of it based on the contribution made to the work and the candidate's record of achievement in operational research; or if it considers that all authors are equally deserving it may award an open scholarship and allow the authors to decide which of them shall take it up.

Independence of Committee Members

During their term of office, members of the Awards Panel may not make nominations, nor may they provide references for nominees.

Conditions

Conditions of the scholarship are that:

- the author(s) will present a paper, based on the submitted abstract, at the conference
- the author(s) will either submit the paper to one of the Society's refereed journals for publication, or will facilitate the writing up, if necessary with the help of a journalist, of their work with a view to publication in *OR Insight* or *InsideOR*.

All claims for reimbursement of conference fees, and reasonable travel and subsistence costs incurred in attending the Young OR conference must be fully substantiated by receipts and accompanied by appropriate documentation to show that the above conditions have been fully complied with.

Procedures

At the time of the Call for Papers for the Young OR conference, the Research & Publications Officer shall arrange for an announcement to be published in *Inside OR*, inviting nominations by a date chosen so as to enable the Awards Panel to adjudicate on the applications, for candidate(s) to be informed of the Awards Panel's recommendations and for the successful candidatures to be notified to the conference committee in time for inclusion in the conference invitation programme. The Research & Publications Officer shall also arrange for the award of the scholarship(s) to be announced in *InsideOR*.

Current Awards Panel practice

It is current practice that announcements relating to the Simpson Scholarships shall be published on the Society's website as well as in *Inside OR*.

Elsie Cropper Award: Best Presentation at a Young OR Conference

Introduction

This award was instituted in memory of Elsie May Cropper, a senior member of the Operational Research Executive (ORE) of British Coal, who died in service in 1989, aged 44 years. Elsie had always been a strong supporter of 'young' entrants to the field.

Eligibility

Delegates who give a presentation at the Society's Young OR conference are eligible. They must meet the criteria for Young OR conference attendance, namely they should be persons with no more than ten years' experience in OR (including time spent in postgraduate OR education) who have at least two years' working experience based in the United Kingdom, of Operational Research in industry, commerce, government, or in a University teaching or research post. These criteria will often exclude delegates specifically invited to the conference to give Keynote papers.

Value

The winner would also have their name engraved on the Elsie Cropper shield as a permanent record of their achievement. A miniature shield is also presented to the winner.

Entry

Eligible delegates at the Young OR conference are automatically considered. No specific entry is required.

Selection

Delegates attending sessions at the conference are encouraged to score each presentation. The winner is the eligible presenter with the highest average score, subject to a minimum number of assessments being made.

APPENDICES

Appendix A: Document Control

Version History

<i>Version</i>	<i>Date</i>	<i>Comments</i>
1.0	February 2007	First draft prepared by Gavin Blackett
1.1	May 2007	Revisions following J. Ranyard's comments
1.2	December 2008	Intro of PhD prize, changes to Beale/Companion and President's Medal
1.3	March 2009	Revision of Beale / Companion following Board meeting (23/2/09). Minor corrections elsewhere.
1.4	October 2014	Introduction of Cook Medal, revision of Elsie Cropper.
1.5	October 2015	Addition of business analytics courses to May Hicks criteria. EURO Summer / Winter institutes criteria updated.
1.6	October 2017	Charlene Timewell updated document branding, updated contact details from Secretary & General Manager to Research & Publications Officer, revised Distinguished Scholars Award: Contributions to IFORS Triennial Conferences, and introduced Lyn Thomas (Impact) and Griffiths Medals.

Document Distribution

<i>Name</i>	<i>Location</i>	<i>Responsibility</i>	<i>Action / Information</i>
Awards Panel	ORS	Awards	

Document Reviewed By

<i>Name</i>	<i>Location</i>	<i>Responsibility</i>
J. Ranyard	Lancaster Univ.	Chair of Awards Panel
ORS Board	ORS	Formal sign-off