



Date: 9/16/2020, updated 02/2022

Section/Society: Energy, Natural Resources and the Environment (ENRE)

Award Name: The Harold Hotelling Medal for Lifetime Achievement in Energy, Natural Resources, and Environment

About the Award: The award recognizes INFORMS members who have made sustained and exceptional contributions to the major areas spanned by ENRE, namely energy, natural resources, and environment.

ENRE offers awards that recognize specific contributions. Specifically, there are five *best publication* awards to recognize outstanding works in these areas. When selecting the recipients of those awards, the award committees review a single paper authored/co-authored by each individual nominated for the respective award. Three of the best publication awards are 'area' awards, one award for each of ENRE's major areas. The Best Student-Paper Award and the Early-Career Best Paper Award are given to outstanding papers that may or may not be published at the time of the award, and are authored/co-authored by a student member and an early-career member of INFORMS, respectively. The Hotelling award recognizes scholars who have demonstrated sustained and distinguished scholarly performance over a reasonably long time, typically ten years or more.

The name *Harold Hotelling Medal for Lifetime Achievement in Energy, Natural Resources, and Environment* (*Hotelling Medal*) has been chosen by the steering committee that was formed after the 2019 Annual Business Meeting of ENRE. The name aims to honor the legacy of Harold Hotelling (1895-1973) who made extensive theoretical contributions to the fields of economics and statistics, and who applied optimization methods to various practical and important problems in economics, most notably to spatial economics and optimum management of natural resources.

Submission and Eligibility Requirements: All members of INFORMS who do outstanding work in one or more of the ENRE-related areas are eligible for nomination. Although ENRE membership is not required, it will be given consideration. A solicitation message will be sent by the Chair of the award committee to the entire membership by January 15. Nominations for the award can be initiated only by active members of ENRE. Neither the nominator nor the nominee may be serving on the award committee in the current year. Contenders who do not receive the award in an award cycle may be nominated again in subsequent years.

Each nomination dossier must include: 1) a filled-out one-page application form including the names of the nominator and the nominee, and their contact information; 2) a brief nomination letter, of no more than two pages, written by the nominator explaining why the nominee is deserving of the award, and up to three reference letters supporting the nomination (none of which may be written by members of the current award

committee), and 3) a maximum 10-page biography that documents the research record, scholarly output (refereed publications etc.), and other outstanding achievements of the nominee. The package will be submitted to the committee in electronic form by May 15. The committee will review the nominations and report to the Section officers as soon as a recommendation decision is reached, that must be no later than August 10. The notification of the award decision to the recipient and to INFORMS will be done by ENRE officers by August 15. The award decision, accompanied by a short bio of the recipient, will be posted on ENRE's official website.

Judging Criteria: The following can be considered by the award committee.

- Cumulative and lasting contributions of the candidate's research activities to the theory and application of OR/MS to problems of importance in the ENRE domain. These can be in the areas of problem identification and development, model formulation and analysis, algorithms and computation, and societally beneficial applications.
- Cumulative impact on the field through education, practice, and promotion of these to address problems of importance in the ENRE domain.

Miscellaneous Rules and Procedures:

- Nominations will be made electronically. The award committee chair will send a confirmation letter (by email) to the nominators and the nominees for acceptance of their nominations. The confirmation letters must also be copied to the ENRE officers.
- The award was launched in 2021. Three inaugural awards were given in the first year after which at most one recipient will be selected per nomination cycle.
- No individual may receive the award more than once.
- The honoree will be formally recognized at the ENRE Business Meeting for the award and the award plaque will be presented in the ENRE Awards Session at the INFORMS annual conference of that year. The medal recipient will deliver the *Hotelling Medal Lecture* following the ENRE Awards Ceremony

Frequency: The award will be given annually. If the committee believes that none of the nominated individuals deserves the award in a particular year, the committee can choose not to award the Hotelling Medal in that year. If this occurs, the committee must justify the decision and explain the reasons explicitly in their report to the ENRE officers.

Financial Implications: A plaque will accompany the award. No monetary prize will be attached to the award. The cost of travel and other conference expenses will be covered by the award recipient (if attending the award ceremony in person). Thus, the Section does not anticipate a significant financial burden.

Committee:

- For each award cycle, a Hotelling Medal committee consisting of five members will be formed. The members of the committee can be nominated by past and current officers of ENRE, and must be approved by simple majority of the membership attending the ENRE Business Meeting in that year (typically on the first day of the INFORMS annual conference). All committee members must be active members of ENRE during the past three years. The committee selects one of its members to serve as Chair of the committee. The chair communicates with the Section officers until the award decision is

made. A past-president of ENRE or a member of a previous Hotelling Medal committee shall serve as observer (without the right to vote) to oversee the award decision procedure.

- If a conflict of interest (COI) arises between a member of the award committee (including the Chair) and a nominee, that member is required to notify the President and request appointment of a replacement member (for that year only). The replacement member must be approved by the ENRE officers; this may be done by electronic communication. COI occurs when a past or current relationship with a nominee might influence the voting process (positively or negatively). Relationships in the form of joint authorship or scholarly collaboration may not be considered as indication of COI, but relatives, supervisors, employees, and sources of funding are clear cases of COI and should be avoided. At most one former student or advisor of a nominee may serve on the committee, and such members should recuse themselves from discussion or rating the candidate, and may only participate in the final vote.
- The committee members will be appointed for a two-year term. Exceptionally, a member's term may be extended to a third year. Each year at least two of the members in the committee must be newly appointed, and at least two members must be continuing members. A member may serve multiple terms that are at least two years apart. This restriction does not apply to replacement appointments in COI situations.

One of the steering committee members and one of the ENRE past-presidents will serve on the committee in the first year. This will be a temporary appointment and will not affect the eligibility of those two individuals for future committee service.

Signature of Officers: Hayri Önal, ENRE President
Miguel F. Anjos, President-Elect
Sandra Ekşioğlu, Secretary-Treasurer

Updated in February 2022: Miguel F. Anjos, ENRE President
Alexandra M. Newman, Chair of the Inaugural Hotelling Committee