



J. WILLARD GIBBS PHASE EQUILIBRIA AWARD

I. DEFINITION AND HISTORY

The award was established in 2007 to recognize outstanding contributions to the field of Phase Equilibria. The award honors J. Willard Gibbs, one of America's greatest theoretical scientists. In addition to many other contributions, Gibbs laid the thermodynamic foundations of phase equilibria theory with his brilliant essay "On the Equilibrium of Heterogeneous Substances" published in 1876 and 1878 in the Transactions of the Connecticut Academy.

It is ASM's commitment to be inclusive and mindful of diversity in our policies, programs, courses, awards, and interactions with others. As an organization, we affirm and encourage nominations of qualified candidates, within each award's criteria, regardless of their age, culture, ethnic origin, gender, gender identity, marital status, nationality, race, religion, sexual orientation, and socioeconomic status.

II. RULES

- A. Persons receiving the award will have advanced the theory of phase equilibria, broadened the existing database on metal and ceramic systems, or in other ways promoted the application of phase equilibria and phase diagrams to Materials Science and Engineering.
- B. ASM International membership is not mandatory.
- C. Any ASM Committee, Council, Sector, Chapter, Affiliate Society, or individual member can submit a nomination for the award.
- D. Nominations are eligible for three years.
- E. The Selection Committee will review only nominations submitted on the proper form.
- F. The selection will be based on information provided on the nomination form. The information includes a discussion of the candidate's contributions to the field of phase equilibria, a resume of the candidate's professional activities and publications that relate to the nomination and supporting letters of reference.
- G. Recommendations must be submitted to ASM Headquarters not later than 1 February, one year prior to the year in which the award is to be presented.
- H. The recipient will be an individual.
- I. Only one award shall be presented each year.
- J. No candidate shall be selected for an award posthumously.
- K. A suggested citation of not more than thirty words should appear on the nomination.
- L. It is the desire of the members of the Board of Trustees to present the award personally, and it is a condition of acceptance of the award that the recipient be present at the annual awards event for appropriate recognition. The recipient will give a keynote speech at the ASM symposium Phase Stability, Diffusion, and Their Applications, organized annually by the Alloy Phase Diagram Committee.

III. PHYSICAL DESCRIPTION OF THE AWARD

The award is suggested to be a tetrahedron with one side being the base and the other three sides for J.W. Gibbs's picture, the citation recommended by the award selection committee, and the phase diagram from the cover of JPED. ASM will contract to design and produce the award, with approval by the APD committee.

IV. AWARDS SELECTION COMMITTEE**A. Appointments**

1. Selection of the award recipient will be made by a subcommittee consisting of five members including a chairperson, who would be appointed and approved by the Awards Policy Committee. The selected nominee will be provided to the Awards Policy Committee and the ASM Board of Trustees for approval

B. Composition and Tenure

1. The committee shall be made up of ASM APD Committee and/or materials engineers who are capable of evaluating work in the field of phase equilibria and phase diagrams.
2. The committee shall consist of a minimum of five members.
3. The tenure for members of the Award Selection Committee shall be three years on a rotating basis with no more than one third of the members replaced in any year.

C. Consideration of Relativity and Duplication of Awards

1. In considering candidates for awards, due regard should be given to potential duplication of recognition for accomplishments that have been recognized in a prior ASM award conferred upon the candidate i.e., candidates should not be recognized with multiple awards for the same accomplishments (refer to APC Procedure on "Relativity of Awards").

D. Report of the Selection Committee

1. The committee shall, by May 1st one year preceding that in which the award is to be made, submit to the Awards Policy Committee a report, including nomination form and background information on the chosen nominee, as well as rationale and documentation for selection.
2. A concise statement, in thirty words or less, of the recipient's accomplishments shall be composed by the Selection Committee.
3. The Selection Committee Chair will be furnished with a Board Report Form which, when completed, provides a reporting mechanism for the above requirements and should be a part of the report to the Awards Policy Committee.