

Selection Measures for Global Top Ten Engineering Achievements

Chapter I General Provisions

Article 1 To promote the advances in engineering science and technology, guide engineering innovation, and draw global attention to engineering science and technology, *Engineering*, the flagship journal of Chinese Academy of Engineering, organizes the selection of Global Top Ten Engineering Achievements every year.

Article 2 The Measures are formulated to ensure the scientific, standardized, and orderly selection of Global Top Ten Engineering Achievements.

Article 3 The selection of Global Top Ten Engineering Achievements shall be based on the principles of independence, objectivity, and scientificity.

Article 4 *Engineering* invites experts and scholars to form the Selection Committee of Global Top Ten Engineering Achievements. The Selection Committee is responsible for the deliberation and determination of Global Top Ten Engineering Achievements and is divided into several professional field groups. The professional field groups are responsible for the selection and recommendation of engineering achievements in their respective fields. The Secretariat of the Selection Committee is responsible for the organization and implementation of the selection work.

Chapter II Selection Scope and Criteria

Article 5 The proposed Achievement shall be a major engineering achievement that is accomplished and accepted separately or jointly by multiple countries five years prior to the selection year, has global influences, and can reflect the current highest level of engineering science and technology in one or more fields. It may be a major project and technical equipment that has been completed, or a key original innovation and breakthrough in engineering science and technology.

Article 6 The Global Top Ten Engineering Achievements shall meet at least one of the following selection criteria:

(1) Significant breakthroughs in engineering technology. The core technology of the proposed Achievement shall be a pioneering breakthrough and/or solution to long-standing bottlenecks and difficulties, touching the world leading level. Or it is a huge improvement on single or multiple performances as compared with previous similar projects and shall remain competitive in the future.

(2) Outstanding innovations in system integration. The proposed Achievement shall have distinctive innovation characteristics in technology and/or system integration, achieving engineering safety, precision, and sustainability, or resource allocation and organizational management in major projects.

(3) Tremendous benefits in application. The proposed Achievement shall act as an important part in driving industrial development and promoting national economic strength. Once completed, it will not only bring benefits to human production and living, but also promote high-quality development of human society.

Article 7 Global Top Ten Engineering Achievements are selected annually, covering the following fields: mechanical and vehicle engineering; information and electronic engineering; chemical, metallurgical, and materials engineering; energy and mining engineering; civil, hydraulic, and architectural engineering; environmental and light textile engineering; agriculture; and medicine and health.

Chapter III Selection Procedures

Article 8 The selection of Global Top Ten Engineering Achievements is divided into four stages: nomination and collection, selection and recommendation, questionnaire survey, and deliberation and determination.

Article 9 The selection of Global Top Ten Engineering Achievements is launched at the beginning of each year. From January to April, the Secretariat collects nominations from global institutions and individuals.

Article 10 In May and June of each year, the Secretariat conducts a preliminary review of the nomination result and submits qualified achievements to the professional field groups for review.

Article 11 In July of each year, the Secretariat forms a candidate list based on the review result of the professional field groups, conducts questionnaire surveys, and forms a recommended list for Global Top Ten Engineering Achievements.

Article 12 In August of each year, the Selection Committee deliberates on the recommended list, votes by secret ballot, and determines the Global Top Ten Engineering Achievements of the year.

Chapter IV Release and Dissemination

Article 13 *Engineering* is responsible for the release and dissemination of the Global Top Ten Engineering Achievements.

Article 14 *Engineering* sets up an Engineering Achievement column and invites experts to write interpretation articles for the Global Top Ten Engineering Achievements.

Chapter V Supplementary Provisions

Article 15 The Measures are discussed and approved by the Editorial Board of *Engineering*.

Article 16 The Editorial Board of *Engineering* is responsible for the interpretation of the Measures.