

Materials Division

Focuses on the properties of materials, such as metals, ceramics, composites and polymers, and their influence on design consideration in materials selection for engineering structures.

Mission

- **Materials Division Goal:** to encourage and foster research and development, and the publication of significant technical information within the scope of the Division. This includes:
 - Encouraging the preparation of and aiding in the publication of papers on materials engineering developments
 - Organizing conferences, symposia, and committees in which all members of the Society may meet to exchange experiences and technical data
 - Cooperating with others inside and outside ASME with respect to standardization, research, preparation of papers, publications, meetings, and consolidation of efforts
 - To honor outstanding mechanical engineers in the field of materials engineering
 - To provide a forum for continuing education in the area of materials engineering

Journal of Engineering Materials and Technology The Technical Voice of the Materials Division

- **Mission**
 - To Publish the Latest Technical Developments in the Field of Materials and Materials Engineering
- Established in 1974
- A Truly International Journal with Wide Distribution

History

- Formation of Materials Division traced to Forest Products Division, one of the twelve divisions formed in 1920. The name was changed to the Wood Industries Division in 1925.
- Iron and Steel Division was authorized by Council in 1927. When the importance of nonferrous metals emerged to the appropriate level, the name of the Division was changed to the Metals Engineering Division (1940).
- Still later, when non-metals as well as metals deserved study by the Division, the present name of Materials Division was authorized by Council in 1972.

Conference Participation

- Wide Participation at the IMECE, Typically 10-15 Symposia with About 40 Sessions; Often Shared with Other Divisions, ESP, AMD, AERO
- Joint Summer Meeting in Alternate Years, Shared with AMD

Technical Scope

- **6 TECHNICAL COMMITTEES:**
 - AMD/MD Joint Committee on Constitutive Equations
 - Composites and Heterogenous Materials
 - Electronic Materials
 - Materials Processing
 - Multifunctional Materials
 - Polymers

Awards

- **Nadai Medal-ASME award;** annual award, recognizes distinguished achievements and contributions to the field of engineering; established as Nadai Award in 1975 and elevated to Medal status in 1998.
- **Orr Awards (two)-MD award;** “Best Paper” as selected by JEMT Editors and Associate Editors, first awarded 2004, recognizes contributions to the literature on fracture and failure investigations.; “Young Investigator” to researcher within 5 years of terminal degree working in experimental, computational, or theoretical fatigue, fracture, or creep.

Organization and Structure

- **MD By-Laws, Organization, and Operational Procedures Online,** Revised 11/05
- **Executive Committee – Vested with the Management of Division Affairs**
 - Consists of Five Members Elected to Serve Five-Year Terms.
 - Meets in Open and Closed Session at IMECE, May Meet at Other Times During the Year.
- **Executive Committee Officers:** Chair, Vice-Chair, Honors & Awards Chair, Program Chair, Secretary.