# Objectives of Divisions and Forums as contained in bylaws. As of August 2019.

## CAST

1. To further the application of mathematical and computing principles in all aspects of chemical engineering, especially the analysis, design, operation and control of process and management systems.
2. To recommend to the Council of the AIChE positions or policies related to such applications.
3. To provide suitable programs to inform Institute members about topics of current interest in these fields.
4. To provide a communication medium for chemical engineers and other individuals to exchange non-confidential information concerning all facets of mathematics, management science, computers, control and systems activity through meetings, seminars, courses and publications.
5. To coordinate the Institute’s activities with other societies and professional organizations active in this field.
6. To act as a source of information for chemical engineers who are not actively engaged in the mathematics, management, computer control systems fields, and to bring to their attention the importance of these activities, the need for consideration of their use in the general practice of chemical engineering and opportunities for their use in research, development, design and operation of process management systems.
7. To encourage chemical engineering educators to place suitable emphasis on these subjects and to encourage excellence in such teaching practices.

## ChE&L

1. Provide a continuous forum for communication, sharing ideas, learning new concepts and benchmarking.
2. Promote interchange of ideas, concepts, know-how, and experiences as related to technical, legal and policy aspects of chemical engineering and related fields.
3. Promote programming for chemical engineering sciences and law topics at AIChE Meetings and other dissemination venues.
4. Promote networking and communication among those involved in chemical engineering sciences and the law.

## CoMSEF

1. Provide a forum for communication and networking among those with an interest in the computational molecular sciences and engineering.
2. Coordinate, sponsor, co-sponsor, and advertise relevant programming, including crosscutting and special-initiative technical sessions and conferences.
3. Promote interchange of ideas, concepts, know-how, and experiences in the computational molecular sciences and engineering, including their connections with experiment.
4. Encourage educators at all levels, particularly in chemical engineering, to integrate concepts of computational molecular sciences and engineering.
5. Advocate curricula that prepare students for career use of computational methods.
6. Promote lifetime learning through workshops and short courses.
7. Provide centralized links to technical publications, computer programs, and databases related to the computational molecular sciences and engineering.

## CRE

1. Provide the focal point for AIChE members with interests in Catalysis and Reaction Engineering.
2. Develop technical program for meetings, and in planning the technical program, to seek a balanced coverage of a variety of topics in Catalysis and Reaction Engineering.
3. Exchange knowledge of technical publications, computer programs, databases, Catalysis and Reaction Engineering research centers, networks, new developments in the fields of Catalysis and Reaction Engineering and Catalysis and Reaction Engineering programs.
4. Keep members informed of future Catalysis and Reaction Engineering meetings.
5. Coordinate exchanges with other groups, such as the ACS Divisions in catalysis, industrial and engineering chemistry, fuel chemistry and petroleum, and ISCRE, Inc.
6. Recognize achievements of members through awards.
7. Encourage chemical engineering educators to place suitable emphasis on the field of Catalysis and Reaction Engineering and on the development of appropriate curricular material.
8. Foster research, development, and the application of chemical engineering knowledge to Catalysis and Reaction Engineering.

## EDU

1. Provide the focal point for AIChE members with interests in educational methods and their assessment, the scholarship of education including both practice and theory as well as outreach activities regarding chemical engineering education.
2. Develop a relevant technical program in education for meetings within the assigned programming areas through discussion with the Committees of the Institute.
3. Encourage chemical engineering educators to strengthen their own learning in the field of engineering education and on the development of appropriate curricular material focused for the ever-diversifying field of chemical engineering.
4. Coordinate and actively work with other entities within the Institute, in particular the Career and Education Operating Council (CEOC) and its Committees, as well as other entities external to the Institute (such as ASEE, industry, and government agencies) to foster the goals of the Division and the Institute as they relate to education.
5. Recognize educational achievements of AIChE members through awards and honors.
6. Provide a high-profile home for programming and activities related to educational research and teaching within the chemical engineering community performed by Institute members.
7. Encourage, through programming and other activities, the training of chemical engineering graduate students in chemical engineering educational methods.
8. Provide feedback and information to the Board, Councils and Committees of the Institute on education-related issues, on request

## ENV

1. To further the research and application of chemical engineering in the environmental field.
2. To recommend to the Chemical Engineering Technology Operating Council and the Government Relations Committee of the Institute positions or policies relating to energy, resources, and the environment.
3. To provide, in cooperation with the AIChE Program Committee, suitable programs on environmental topics of fundamental or current interest, including preserving, restoring, and sustaining the environment and conserving energy and resources for future generations.
4. To provide a communication medium for chemical engineers and other individuals to exchange non-confidential information concerning all facets of environmental activity.
5. To promote publication of papers in environmental activities that are of interest to chemical engineers.
6. To coordinate the Institute's activities with other societies active in the environmental field.
7. To act as a source of information for chemical engineers who are not actively engaged in the environmental field, and to bring to their attention the importance of preserving, restoring, and sustaining the environment, the need for its consideration in the design and operation of chemical processes, and the opportunities in research and design of equipment and processes to prevent and solve environmental problems.
8. To encourage chemical engineering educators to place suitable emphasis on protecting and sustaining the environment and to encourage excellence in courses in environmental science and engineering.

## F&PD

1. To further the application of chemical engineering in the fuels and petrochemicals fields by industrial, educational, institutional and governmental groups.
2. To provide a communications medium for the exchange of non-confidential information of mutual interest among individuals engaged in all phases of fuels and petrochemicals activities.
3. To provide a forum for the dissemination of information, ideas, and attitudes between the practicing engineer and the chemical engineering educator.
4. To instill an early interest in the Institute among the engineers in these specific fields; and to promote cross-fertilization of ideas with chemical engineers in other industries and thus to stimulate transfer of knowledge from one field to another.
5. To coordinate the Institute’s activities with other societies active in fuels and petrochemicals.
6. To provide leadership, assistance and expertise as appropriate to the Institute, industrial, educational, and governmental groups in all fields of fuels and petrochemicals, activities, including safety, health, and environment.

## FP&BE

1. To provide opportunities for engineers and scientists interested in the fields of food, pharmaceutical, and bioengineering to meet and to discuss topics of mutual concern.
2. To promote dissemination of information in these fields, including paper presentations at Institute meetings.
3. To coordinate the Institute's activities in the fields of food, pharmaceutical, and bioengineering with the activities of other societies working in these same areas.
4. To cooperate with the other divisions and committees of the Institute in dealing with matters of mutual concern.
5. To encourage greater emphasis on biological sciences and bioengineering in chemical engineering curricula.
6. To implement the general objective of the Institute in promoting cross-fertilization of ideas and transfer of knowledge from one field to another.

## FBP

1. To provide a forum for engineers and scientists to meet and to discuss forest and plant bioproducts and related topics of interest.
2. To promote the discovery, publication and dissemination of knowledge and advancements in the field, through papers and presentations at national Institute meetings and publishing of relevant information.
3. To coordinate the Institute's activities in the fields of forest and plant bioproducts with the activities of other societies working in similar areas.
4. To cooperate with other divisions and committees of the Institute in dealing with matters of mutual interest.
5. To implement the general objective of the Institute in promoting cross-fertilization of ideas and transfer of knowledge from one field to another.

## MESD

1. to further the application of Chemical Engineering in the fields of Materials Engineering and Sciences;
2. to provide opportunities for engineers and scientists interested in materials to exchange information through meetings, seminars, courses, and publications;
3. to coordinate the AIChE activities in the field of materials with those of other societies working in the same area;
4. to provide a forum for the interchange of information and ideas on materials between the producing engineer and the educator;
5. to cooperate with other Divisions (especially those cosponsoring programming, e.g., ComSEF, NSEF, PTF, FP&BE, CRE, SEP), Committees (e.g., RANTC), and Technical Societies (e.g., SBE) of the AIChE in matters concerning materials –
6. to encourage emphasis on materials in chemical engineering education and graduate research; and
7. to promote and to help orient research and development activities in the field of materials.

## MGT

1. To provide a forum to discuss and present topics pertinent to chemical engineering management and entrepreneurial activities
2. To provide chemical-engineering-management related programming at Institute meetings and to conduct special management meetings
3. To foster peer recognition and good communication between engineers and practicing, consulting, and academic chemical engineering management professionals by providing an opportunity for interaction between these groups
4. To instill an interest in the Institute and the Management Division among managers and those who aspire to become managers
5. To encourage the provision of management training courses and, thereby, to provide a way for future and current managers to develop and enhance management skills
6. To coordinate the Institute's management related activities with other associations active in the broad field of management and to inspire and assist Institute members, especially younger members, in a career path toward management

## NAMF

No Objectives in Bylaws

## NE

1. to group members of the American Institute of Chemical Engineers involved or interested in nuclear science and technology,
2. to promote publication and dissemination of information in nuclear science and technology,
3. to promote interaction on nuclear science and technology among the corporate, government, and academic sectors,
4. to promote applications of nuclear science and technology in other fields.

## NSEF

1. Provide a forum for communication and networking among those with an interest in nanoscale sciences and engineering.
2. Coordinate, sponsor, co-sponsor, and advertise relevant programming, including crosscutting and special-initiative technical sessions and conferences.
3. Promote interchange of ideas, concepts, know-how, and experiences in nanotechnology.
4. Encourage educators at all levels, particularly in chemical engineering, to integrate concepts of nanoscale sciences and engineering.
5. Advocate curricula that prepare students for career use of nanotechnology.
6. Promote lifetime learning through workshops and short courses.
7. Provide centralized links to technical publications and databases related to nanotechnology as it relates to chemical engineering sciences.

## PD2M

1. Provide a Forum for communication and networking among Forum members with interest in Pharmaceutical Discovery, Development and Manufacturing.
2. Promote interchange of ideas, concepts, know-how, and experiences in Pharmaceutical Discovery, Development and Manufacturing with other groups within and outside of the Institute.
3. Develop technical programs of topics on Pharmaceutical Discovery, Development and Manufacturing professional meetings.
4. Keep members informed of recent as well as potentially significant news and technologies.
5. Promote life-long learning via workshops and short-courses.
6. Encourage chemical engineering educators to place suitable emphasis on Pharmaceutical Discovery, Development and Manufacturing and on the development of appropriate curricular material.
7. Foster the application of chemical engineering knowledge and fundamental research to Pharmaceutical Discovery, Development and Manufacturing.
8. Recognize achievements in Pharmaceutical Discovery, Development and Manufacturing through awards.

## PDD

1. Provide a forum for communication and networking among Division members with interest in process development.
2. Promote interchange of ideas, concepts, know-how, and experiences in process development.
3. Keep members informed of recent as well as potentially significant news and technologies in process development.
4. Promote life-long learning with workshops and short-courses.
5. Provide a centralized source of technical publications, computer programs, and data bases related to process development.
6. Develop technical programs of topics on process development in professional meetings.
7. Coordinate exchanges with other groups within and outside of the Institute.
8. Encourage chemical engineering educators to place suitable emphasis on process development and on the development of appropriate curricular material.
9. Foster the application of chemical engineering knowledge to and fundamental research in process development.
10. Recognize achievements of members through awards.

## PTF

1. To cover a wide range of interdisciplinary topics in particle technology.
2. To serve as an international forum for particle technology.
3. To foster and promote industrial and academic interactions.

## S&H

1. To further the application of chemical engineering to the broad field of safety and health and to further the application of the field of safety and health to chemical engineering.
2. To recommend to the Council of AIChE positions or policies relating to safety and health.
3. To provide and to collaborate in suitable programs on safety and health topics of current interest, in cooperation with the National Program Committee.
4. To provide a communication medium for chemical engineers and other individuals to exchange non-confidential information concerning all facets of safety and health.
5. To promote the publication of papers in the field that are of interest to chemical engineers.
6. To coordinate the Institute’s activities with other societies active in the broad field of the safety and health of persons and the protection of property.
7. To act as a source of information for chemical engineers who are not actively engaged in the safety and health field and to alert them to the importance of a concern for safety and health, including protection of property; to the need for a consideration of safety and health in the design and operation of process plants; and to the opportunities in research and in the design of equipment and processes to solve safety and health problems.
8. To address the problems of safety and health and of the protection of property in the manufacture, processing, distribution, and use of chemicals.
9. To encourage chemical engineering educators to place suitable emphasis on the field of safety and health of persons and the protection of property.

## SEF

1. to cover a wide range of interdisciplinary topics in sustainability
2. to serve as an international forum for sustainable engineering
3. to foster and promote industrial, academic and Government interactions.

## SEP

1. Provide the focal point for AIChE members with interests in separations.
2. Develop technical program for meetings. Seek balanced coverage of a variety of currently used and novel methods of separation.
3. Exchange knowledge of technical publications, computer programs, data bases, separation research centers, networks, and programs.
4. Keep members informed of future separations meetings.
5. Coordinate exchanges with other groups, such as the ACS Separations Science and Technology Subdivision.
6. Recognize achievements of members through awards.
7. Encourage chemical engineering educators to place suitable emphasis on the field of separations and on the development of appropriate curricular material.
8. Foster research, development, and the application of chemical engineering knowledge to separations technologies

## TEP

1. To further the application of chemical engineering principles and practices.
2. To promote academic and industrial communication and collaboration.
3. To provide opportunities for all chemical engineers to meet and discuss current activities and technological trends.
4. To promote publication and dissemination of information.
5. To promote and coordinate educational activities.
6. To promote and help orient research and development activities along needed lines.
7. To recognize achievement by awarding the Donald Q. Kem Award, the Transport and Energy Processes Division Award, and, jointly with the ASME Heat Transfer Division, the Max Jacob Award.
8. To cooperate with other Divisions and Committees within the Institute in areas of mutual interest.
9. To coordinate the lnstitute's activities with the activities of other societies as approved by Chemical Engineering Technology Operating Council or the Board of Directors of AIChE.
10. To represent the Institute's interest in inter-organizational groups and activities, as approved and authorized by the Chemical Engineering Technology Operating Council of the Institute.

## UEFA

1. Cover a wide range of interdisciplinary topics in upstream engineering and flow assurance.
2. Develop an understanding of the current upstream engineering challenges and contributing to the formulation of the necessary solutions based on the fundamental principles of chemical engineering.
3. Facilitate interaction between experts, professionals, and students interested in the area of upstream engineering and flow assurance.