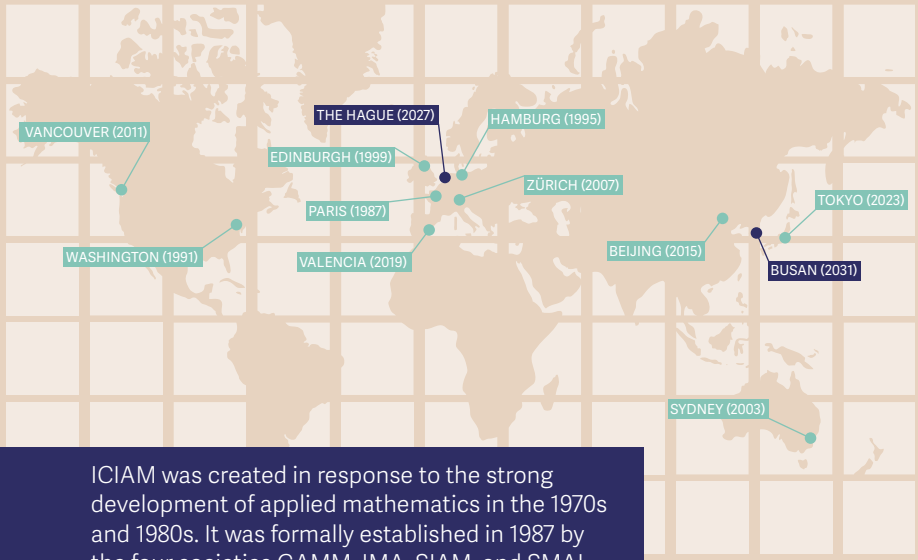
The International Council for Industrial and Applied Mathematics

The International Council for Industrial and Applied Mathematics (ICIAM) is a worldwide organization for professional applied mathematics societies, and for other societies with a significant interest in industrial or applied mathematics. Currently ICIAM has 54 members (see map online).

ICIAM is registered as a charitable organization in the USA. Its main objectives are:

- to promote industrial and applied mathematics internationally;
- to promote interactions between the member societies;
- to promote the goals of these member societies;
- to coordinate planning for periodic international meetings on industrial and applied mathematics.



ICIAM was created in response to the strong development of applied mathematics in the 1970s and 1980s. It was formally established in 1987 by the four societies GAMM, IMA, SIAM, and SMAI. The main activity is the ICIAM Congress which is held every 4 years. The ICIAM conference has already been held in 10 major cities in the world, as shown in the map above. The next congresses will take place in The Hague in 2027 and Busan (2031).

ICIAM scientific prizes

ICIAM awards six major scientific prizes at the opening of the ICIAM Congresses:

- **ICIAM Collatz Prize** to provide international recognition to individual scientists under 42 years of age for outstanding work on industrial and applied mathematics.
- **ICIAM Industry Prize** to provide international recognition to scientists who have made outstanding contributions to innovative mathematical techniques with demonstrated impact in Industry.
- **ICIAM Lagrange Prize** to provide international recognition to individual mathematicians who have made an exceptional contribution to applied mathematics throughout their careers.
- **ICIAM Maxwell Prize** to provide international recognition to a mathematician who has demonstrated originality in applied mathematics.
- **ICIAM Pioneer Prize** for pioneering work introducing applied mathematical methods and scientific computing techniques to an industrial problem area or a new scientific field of applications.
- **ICIAM Su Buchin Prize** to provide international recognition of an outstanding contribution by an individual in the application of mathematics to emerging economies and human development, in particular at the economic and cultural level in developing countries.

ICIAM partnerships

- A scientific partner of the Centre International de Mathématiques Pures et Appliquées (CIMPA) which co-organises and sponsors numerous activities in developing countries, in all continents.
- Provides support for attendance at conferences in/from developing countries.
- A category 1 full member of the International Science Council (ISC).

ICIAM Officers

- Wil Schilders, TU Eindhoven, president president@iciam.org
- Sven Leyffer, Argonne National Laboratory, president-elect
- Suzanne Shontz, University of Kansas, secretary, secretary@iciam.org
- Heike Fassbender, TU Braunschweig, treasurer, treasurer@iciam.org

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A forum for exchange of information and news between ICIAM member societies and partner organizations. Published quarterly.

ICIAM

Dianoia: Greek, a term used by Plato for a type of thinking, specifically about mathematical and technical subjects

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