



KNC

DATABASES
BEST PRACTICE
GUIDELINES

PROFESSIONAL
TRAINING

SPC

WORKSHOPS
CONFERENCES
COURSES

SIG/PC

WHAT IS ERCOFTAC?



ERCOFTAC is an International Association, aimed at promoting science-based engineering in all areas related to Flow, Turbulence And Combustion (FTAC). It was created in 1988 and has developed into a leading professional organization strengthening and supporting the FTAC community

- by organizing Special Interest Groups (SIG) on key areas of research and engineering,
- by fostering a range of Summer - and Winter schools and professional courses creating effective knowledge transfer and networking, and,
- by developing its knowledge network responsible for the famous series of best-practice guidelines and its database of reference flows, vital for validated engineering methods

ERCOFTAC distinguishes regional Pilot Centers (PC), which support the global aspirations with membership open to any organization worldwide.

For further information and inquiries on ERCOFTAC's key activities: contact@ercoftac.org



THE MAIN OBJECTIVES

- To promote interaction between Research Institutes and Industries in all aspects of Flow, Turbulence and Combustion
- To stimulate the exchange of technical and scientific information forging new methods and their validation using various reference databases
- To develop collaborative networks through its Scientific Program Committee (SPC), which stimulates fundamental research with a keen eye on practical relevance
- To foster its Knowledge Network Committee (KNC), thereby promoting industrial application of FTAC research, shaping novel collaborations between industry, professional societies and academics
- To create advanced training activities improving the professional and academic development of the level of FTAC research and development
- To stimulate the younger FTAC generation to rise to the challenge of shaping ERCOFTAC's future: the famous Da Vinci PhD prize creates first contacts between high-potentials and ERCOFTAC's network

PRODUCTS AND SERVICES

ERCOFTAC as a global research community takes responsibility for:

- [The ERCOFTAC Bulletin](#)

This is an informal communication platform where new scientific and engineering trends are published. The Bulletin is free to members in electronic and printed form.

Alternate issues of the Bulletin are devoted to a special scientific theme; these special issues provide a snapshot of the state-of-the-art of research in a particular FTAC domain.

The Bulletin contains news from the ERCOFTAC Association, reports from Pilot Centers and Special Interest Groups, and, an Agenda announcing activities such as workshops, training schools, conference and meetings.

- [Professional Training](#)

Delivery of Technology Awareness seminars and BPG courses underpinned by latest FTAC Science and Engineering trends.

- [The ERCOFTAC Quarterly](#)

This is a Quarterly newsletter highlighting scientific breakthroughs, successes in science-based engineering, awards and honors received in our community and short reports on current events and future plans.

- [ERCOFTAC Book Series](#)

The ERCOFTAC Book Series is edited by the SPC and published by Springer, documenting proceedings of major ERCOFTAC meetings such as conferences and workshops, and presenting contributed volumes on modern developments in FTAC or material taught at Summer - and Winter schools.

- [Journal of Flow, Turbulence and Combustion](#)

The Springer Journal 'Flow, Turbulence and Combustion' is strongly supported by ERCOFTAC as its preferred science-based Engineering channel. Springer offers members of ERCOFTAC a special subscription rate.

- [Best Practice Guideline Book Series](#)

ERCOFTAC develops and maintains a series of Best Practice Guidelines, serving as the points of reference in specialized engineering disciplines. Current titles include CFD for single-phase flows, CFD for Dispersed Multiphase Flows and CFD for Combustion. This Series is accompanied by a corresponding set of high-level Courses.

- [ETMM Conference Series](#)

The ETMM (Engineering Turbulence Modeling and Measurements) Conference Series is the flagship Conference of ERCOFTAC. It is organized under its initiative and serves as leading platform for the exchange of innovative Research and Engineering developments in the FTAC domain.

- [Knowledge Base Wiki](#)

The QNET-CFD Knowledge Base introduces a new concept for collecting, structuring and sharing knowledge and best practice guidelines for all CFD applications. It is continuously being extended and serves as the major repository of structured knowledge and advice designed to underpin quality and trust in the industrial application of CFD.

BENEFITS OF MEMBERSHIP

- Members participate in an international collaborative network bringing together academia and industry concentrating on Flow, Turbulence and Combustion
- Pilot Centers provide contacts and regional support for research activities
- Special Interest Groups provide a natural topical organization of ERCOFTAC members working on themes of central importance to cutting edge engineering
- Members receive, free of charge, the ERCOFTAC Bulletin and the ERCOFTAC Quarterly Newsletter
- Members have free and full access to the world renowned ERCOFTAC QNET Knowledge Base Wiki
- Members receive a reduced subscription rate for the Journal of Flow Turbulence and Combustion
- Members get discount on the Best Practice Guidelines Books
- Members can apply for financial support for Workshops, Summer - and Winter schools
- Members can apply for scholarship funding for young researchers to participate in activities organised or sponsored by ERCOFTAC
- Members receive substantial reductions on registration fees for courses, seminars, workshops etc. organised or sponsored by ERCOFTAC
- Members can participate in the ERCOFTAC Spring - and Autumn Festivals
- Free jobs listing on ERCOFTAC's website

For further information or to become member of ERCOFTAC please contact

contact@ercoftac.org or visit www.ercoftac.org