

**EUROPEAN
MECHANICS
SOCIETY**

EUROMECH - The European Mechanics Society

OBJECTIVE: Promote in Europe the development of Mechanics as a fundamental branch of science and engineering.

Founded by George Batchelor and Dietrich Küchemann in 1964. Expanded in 1993 by David Crighton to become the **European Mechanics Society**

ACTIVITIES

Nurturing and supporting two types of meetings:

EUROMECH Colloquia (10 per year): informal meetings on specialized research topics, 40 to 70 researchers, € 2000 seed money, no proceedings necessary; over 500 colloquia have been held.

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EUROMECH Conferences: broad in scientific scope, 150 to 600 participants, meet and discuss current research on a regular basis.

EUROMECH Fluid Mechanics Conference (every 2 years)

EUROMECH Solid Mechanics Conference (every 3 years)

EUROMECH European Turbulence Conference (every 2 years)

EUROMECH Nonlinear Oscillations Conference (every 3 years)

EUROMECH Mechanics of Materials Conference (every 2 years)

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Support for young researchers: EU Marie Curie grant to support 5 conferences in 2006, 2007 and 2008

Collaboration between European societies engaged in Aeronautics & Aerospace research: E-CAero grant 2009 - 2012 involving CEAS, ECCOMAS, ERCOFTAC, EUCASS, EUROMECH & EUROTURBO

EUROMECH Fluid Mechanics and Solid Mechanics prizes to recognize outstanding contributions to Mechanics

EUROMECH Fellows to recognize significant contributions to the advancement of Mechanics

EUROMECH Young Scientist prizes for outstanding oral presentations

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1250 members

Affiliation of 7 national societies to EUROMECH

Officers : P. Huerre (Paris), H. Fernholz (Berlin), B. Schrefler (Udine),
W. Schröder (Aachen)

EUROMECH Council : 10 elected councillors

5 Standing committees for each series of conferences

European Journal of Mechanics Solids/Fluids : EUROMECH official media
of publication

Membership application online at www.euomech.org

€ 24 entitles to pay reduced registration fees and to receive the newsletter

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EUROMECH Colloquia - 2009

- [503] Nonlinear Normal Modes, Dimension Reduction and Localization in Vibrating Systems
- [507] Immersed boundary methods: current status and future research directions, co-sponsored by ERCOFTAC
- [508] Wind turbine wakes
- [512] Small scale turbulence and related gradient statistics

EUROMECH Colloquia – 2010

- [505] Multiscale effects in fatigue metals co-sponsored by ECCOMAS
- [511] Biomechanics of Human Motion. New Frontiers of Multibody Techniques for Clinical Applications
- [513] Dynamics of non-spherical particles in fluid turbulence
- [515] Advanced applications and perspectives of multibody system dynamics
- [517] Interfaces and inhomogeneous turbulence
- [518] Biomechanics of the Eye
- [519] Mixing and dispersion in flows dominated by rotation and buoyancy
- [520] High Rayleigh number convection

EUROMECH Colloquia - 2011

- [514] New trends in Contact Mechanics
- [516] Nonsmooth contact and impact laws in mechanics

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« New single or clustered events as harmonized dissemination demonstrators »

EXISTING EVENTS

ESMC7- 7th EUROMECH Solid Mechanics Conference

(mini-symposium by ECCOMAS)

7-11 September 2009 (organizer: J. Ambrosio) website

EETC12 - 12th EUROMECH European Turbulence Conference

(mini-symposium by ERCOFTAC)

7-10 September 2009 (organizer: B. Eckhardt) website

EFMC8 - 8th EUROMECH Fluid Mechanics Conference

(mini-symposium by EUCASS)

13-16 September 2010 (organizer: N. Adams)

ERCOFTAC-EUROMECH Colloquium “Immersed boundary methods: current status and future research directions”

15-17 June 2009 (organizer: M. Pourquie) website

ECCOMAS-EUROMECH Colloquium “Multiscale effects in fatigue of metals”

5-9 July 2010 (organizer: A. Constantinescu) website

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NEW EVENTS

1. Joint minisymposia with other societies (in particular with EUCASS, ERCOFTAC and ECCOMAS) within three existing large EUROMECH Conferences (EFMC8, ESMC7, EETC12),
2. Joint sponsorship of large conferences,
3. Invited speakers from other societies at EUROMECH Colloquia,
 - Joint sponsorship of EUROMECH Colloquia.