

GIULIO MAIER

Socio dal 1993

Nato a Capodistria, March 8, 1931

Professor Emeritus of Structural Engineering (Scienza delle Costruzioni), Politecnico di Milano



- 1948 "Maturità classica"
- 1954 "Laurea" in Mechanical Engineering, Trieste University (cum laude)
- 1958 PhD ("Specializzazione") in Aerospace Eng., Rome Un. (cum laude)

- 1973-86: Coordinator of the Continuing Education in Milan Politecnico
- 1975-78: Director of Structural Engineering Department
- 1986-1990: President of Associazione Italiana di Meccanica Teorica e Applicata (AIMETA)
- 1993-2002: Coordinator of Doctoral School in Structural Engineering
- 2005-2010: Rector of International Centre of Mechanical Sciences, (CISM), Udine, Italy
- Visiting Scholar at Universities: Brown(USA), Cambridge(UK), Mons(Belgium), Illinois(USA), Sydney (Australia), Minnesota(USA), Tsinghua (China),
- Editorial board member of 15 international scientific journals.
- Former Editor of "Meccanica" and former Associate Editor of "European Journal of Mechanics A/Solids".
- Fellow of: American Society of Civil Engineers (ASCE); American Society of Mechanical Engineers (ASME); International Association of Computational Mechanics (IACM); American Academy of Mechanics (AAM); Polish Association of Theoretical and Applied Mechanics.

- 1963 *Virgilio Affer Prize, Italian Association for Steel Construction (ACAI)*
- 1968 *Professor L.Stabilini Prize, Politecnico di Milano*
- 1978 *Rancati Prize, Istituto Lombardo di Scienze e Lettere, Milan*
- 1981 *Feltrinelli Prize Italian National Academy (Lincci)*,
- 1984 *Copernicus Medal, Polish Academy of Sciences, Warsaw*
- 1985 *Member of Italian National Academy (Lincci), Rome*
- 1985 *Doctoral Degree HC, Aristotele University, Thessaloniki,*
- 1990 *Member of Istituto Lombardo di Scienze e Lettere, Milan*
- 1991 *Foreign Associate, Royal Society of South Africa, Cape Town*
- 1992 *Docteur ès Sciences Appliquées H, Faculté Polytechnique de Mons, Mons, Belgium*
- 1993 *Member of Accademia Nazionale delle Scienze detta dei XL, Rome*
- 1997 *Foreign Member, Polish Academy of Sciences, Warsaw*
- 1998 *Fellow, New York Academy of Sciences*
- 1998 *University Medal , University of Colorado, Boulder, USA*
- 1998 *Honorary Member, Hungarian Academy of Sciences, Budapest*
- 2000 *Foreign Member, Russian Academy of Engineering, Moscow*
- 2000 *Warner T. Koiter Medal, American Society of Mechanical Engineers*
- 2000 *Honorary Professor, Tsinghua University, Beijing, China*
- 2003 *Foreign Associate, National Academy of Engineering, Washington,*
- 2004 *Doctoral Degree HC ", University of Saint Petersburg, Russia*
- 2005 *Member of Istituto Veneto di Scienze, Lettere e Arti, Venice,*
- 2006 *Member of the Academy of Friuli, Udine, Italy*
- 2007 *Zienkiewicz Medal of Polish Association of Computational Mechanics*
- 2008 *Ritz-Galerkin Medal of European Community of Computational Methods in Applied Sciences (ECCOMAS)*

- 2008 Member of the Academy of Sciences, Torino, Italy
- 2008 Foreign Member of Polish Academy of Sciences and Arts, Krakow
- 2010 Foreign Member of the Portuguese Academy of Sciences, Lisbon
- 2011 Life-Time Achievements Medal on Computational & Experimental Engineering and Sciences (ICCES'11), Nanjing, China.
- 2011 Blaise Pascal Medal in Engineering, European Academy of Sciences Liege, Belgium

Campi di interesse:

- mechanics of elastoplastic structures: shakedown theory, computational methods, extremum properties,
 - design optimization by mathematical programming;
 - constitutive parameter identification by inverse analyses,
 - boundary element methods
 - quasi-brittle fracture mechanics;
 - structural diagnosis
 - mechanics of composite materials;
 - real-life engineering problems concerning tension structures, offshore plants, concrete dams.
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- Maier, G., "Incremental plastic analysis in the presence of large displacements and physical instabilizing effects", International Journal of Solids and Structures, 1971
 - Cohn, M. Z., Maier, G., Eds., "Engineering plasticity by mathematical programming", Pergamon, New York, 1979
 - Maier, G., Novati, G., "Dynamic shakedown and bounding theory for a class of nonlinear hardening discrete structural models", Int. J. of Plasticity, 1990
 - Cocchetti, G., Maier, G., "Elastic-plastic and limit-state analyses of frames with softening plastic-hinge models by mathematical programming", Int. J. Solids and Structures, 2003
 - Buljak, V., Maier, G., "Proper orthogonal decomposition and radial basis functions in material characterization based on instrumented indentation", Engineering Structures, 2011
 - .Patent IMPRINT, Politecnico Milan-VeneziaTecnologie, 2011..