



### **Professor Charles E. Massonnet (19xx – 1996)**

University of Liège, Belgium

#### **The Charles Massonnet Award**

In 1998, the European Convention for Constructional Steelwork (ECCS) created the "Charles Massonnet Award" to recognize a prominent scientist who highly contributed to the advancement of scientific and technical support to constructional steelwork, and who had worked or is working in a Technical Committee of ECCS as a Full Member or as a Chairman or a Secretary of one of the mentioned committees. It is presented every year.

This Award had been named for Professor Charles Massonnet to keep his memory. Indeed, Professor Charles Massonnet was an eminent expert and academic, but also one of the most leading personalities members of ECCS who contributed to the promotion of the use of steel in construction through his work and his tuition in stability, plasticity and strength of materials.

Born on 14 April 1914 in Arlon, in the Belgian Province of Luxembourg, Professor Charles Massonnet was a scientist of national level (professor at the University of Liège, Belgium) as well as of international level (Doctor Honoris Causa at the Technology University of Göteborg, in Sweden, the Federal Polytechnical School of Zürich, in Switzerland, Associate Member of the National Academy of Engineering of the United States of America, Foreign Member of the Polish Academia of Sciences). Professor Charles Massonnet passed by on 4th April 1996.

The Charles Massonnet Award is presented in principle every year by an ECCS member association.

The nominated person will be proposed to the executive board by the nomination committee and will be submitted to the vote at the spring meeting of the executive board at a simple majority of the members present. The Charles Massonnet award consists of a plaque bearing the name of the recipient, the date, and mention of ECCS.

### **Selected Publications:**

Save, M. A. and Massonnet, C. E.: **Plastic Analysis and Design of Plates, Shells and Disks**, North Holland, Amsterdam 1972

Massonnet, Ch., "The relations between the normal modes of vibration and the stability of elastic systems", Bull. C.E.R.E.S., Liège, Tome I, Nos. 1-2, 1940

Massonnet, Ch., "The web stability of longitudinally stiffened plate<sup>3</sup> girders subjected to pure bending", A.I.P.C., Mém., Vol. 6, Zürich, 1940-41, pp. 234-246

Massonnet, Ch., "Buckling tests of stiffened plate girders", Fifteenth Congr. International des Centres d'Information de l'Acier. (also see A.I.P.C., Mém, Vol. 14, Zurich, 1954, pp. 125-186, or Acier, No. 2, February 1955, pp. 3-12)

Massonnet, Ch., "The buckling of plates", A.I.P.C., Rap. f., Third Congr., Liège, Belgium, September 1948, pp. 291-300

Massonnet, Ch., "Experimental investigations of web buckling of plate girders", Bulletin du Centre d'Etudes, Tome 5, 1951, pp. 67-240, or A.I.P.C., Publ. Prél., Fourth Congr., Cambridge-London, 1952, pp. 539-555

Massonnet, Ch., "Investigations on the design and the efficient stiffening of webs in plate girders, taking into account web buckling", Annales de l'Institute Technique du Bâtiment et des Travaux Publics, No. 71, November 1953, pp. 1062-1080

Massonnet, Ch., "Stability considerations in the design of steel plate girders", ASCE Proc. Vol. 86, No. St1, Paper No. 2350, January 1960

Massonnet, Ch. and Greisch, R., "Charts for a plate girder, determining the web thickness and the spacing of vertical stiffener taking into account the factor of safety against buckling", A.I.P.C., Rap. F., Fourth Congr., Cambridge-London, 1952, pp. 299-308, also Notes techniques publiées par la C.E.C.M, Bruxelles, 1953, edited by Fabrimétal.

Maquoi, R. and Massonnet, C., "Interaction Between Local Plate Buckling and Overall Buckling in Thin-walled Compression Members," Buckling of Structures, edited by B.Budiansky, Springer-Verlag, Berlin, Heidelberg, New York, 1976, pp. 365-382

Baltus, R. and Massonnet, C., "Use of Computer Programs BOSOR 4 and 5 in the Stability Analysis of Two Civil Engineering Steel Shell Structures," Proceedings of Stability of Steel Structures, Liege, Belgium, April 1977, pp. 609-617