

## 2015 Acta Materialia Gold Medal Award

The recipient of the 2015 Acta Materialia Gold Medal Award is Professor J. David Embury who holds the title of University professor at McMaster University in Canada and is also Adjunct professor at the Department of Materials Engineering, University of British Columbia in Canada and at the School of Materials Science and Engineering in Shanghai Jiaotong University, China.



Dr Embury received his B.Sc in Metallurgy from the University of Manchester UK in 1960 and his PhD in Metallurgy from the University of Cambridge UK in 1963. After completing his doctoral thesis on Studies of Precipitation in Al alloys using Transmission Electron Microscopy he joined the Bain Laboratory of US Steel under the direction of Dr Lawrence Darken.

In 1966 he joined the Department of Metallurgy at McMaster University in Canada where he served in a variety of positions including Head of department, member of university senate and Acting director of the Brockhouse Institute for Materials Research. A significant portion of Dr Embury's research has been at the interface of Materials and Mechanics and he has made contributions in topics such as --

- Ductile Fracture
- Metal forming
- The development of Ultra-high strength materials
- Drawing of Pearlite and co-deformation processes
- Precipitation in Aluminium alloys
- The understanding of substructural strengthening
- Materials for High Field Magnets
- Hybrid and Architected Materials

In addition to his teaching and research at McMaster, Dr Embury has worked on Educational Aid programs for the government of Canada and has held Visiting Professorships in a number of countries including France, Belgium, Norway, Australia, Italy, Brazil, Argentina, Turkey and China. Dr Embury has contributed to the development of Educational methods in Materials Science and has been active in curriculum development in the past few years.

Dr Embury's work has been recognised by a number of learned societies. In 1989 he was elected as a Fellow of the American Society of Mining and Metallurgy, in 1991 to a fellowship of the Royal Society of Canada and in 1992 as a Foreign Associate of the US National Academy of Engineering. He was granted the title Doctor Honoris Causa by NTNU Trondheim Norway in 2006.

Dr Embury now resides in France and was awarded La Grande Médaille de la Société Française de Matériaux et de Métallurgie in 2009.

In accepting the 2015 Acta Materialia Gold Medal Award, Dr Embury wishes to acknowledge his debt and his gratitude to all of his students and colleagues in both Canada and throughout the world.