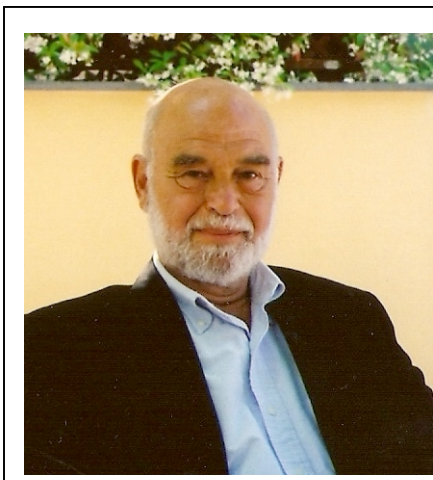


## **Personal information form for Fellow members of EAMBES**

### **Personal Info**



Name: BARBENEL Joseph

Gender: Male

Date and place of birth: 2 Jan 1937 London

Present affiliations and functions: Emeritus Professor, University of Strathclyde and Research Fellow, University of Glasgow School of Medicine.

Present e-mail address: j.c.barbenel@strath.ac.uk

Webpage address when applicable:

### **Short CV**

1. BDS (London 1960) BSc (St Andrews 1966) MSc (Strathclyde 1967) PhD (Strathclyde 1979)

2. Dental House Surgeon, London Hospital (1960)

Royal Army Dental Corps; National Service, Malaya, Lt (1960) Capt (1961)

General Dental Practice, London (1962-1963)

University of St Andrews - Student, (Nuffield Fellow) (1963-1966)

University of Strathclyde, Bioengineering Unit - Student, (MRC Award for Further Education in Medical Sciences) (1966-1967)

University of Dundee Dental School and Hospital, Lecturer Department of Dental Prosthetics (1967-1969)

University of Strathclyde, Bioengineering Unit (1970- 2001) Senior Lecturer (1970); Head of Tissue Mechanics Division (1973); Reader (1982); Personal Professor (1985); Professor (1989); Head of Department (1992-1998).

University of Strathclyde Faculty of Engineering, Vice Dean (Research), (1997- 2001)

University of Strathclyde, Emeritus Professor and Transfer to Dept of Electronic and Electrical Engineering (2002- )

University of Glasgow School of Medicine, Research Fellow (2009- )

### **3. I have been:**

#### International

IFMBE, Member Administrative Council and Chair C&B Committee

IUPESM, Member Administrative Council

EAMBES, Chair Division of Societies and Member of Council

International Society for Bioengineering in the Skin, Member of Council and Secretary for Standardisation

International Faculty for Artificial Organs, Chancellor

## UK

Biological Engineering Society, President

Institution of Physics and Engineering in Medicine, Vice-President for International Issues and member of Council

The Royal Society of Medicine Forum on Clinical Haemorrhology, Member of Steering Committee

Society for Tissue Viability, President

Royal College of Physicians of England, Member of Chronic Wound Audit Task Force

Department of Health, Member of Pressure Sore Working Group.

Royal College of Nursing, Member of Pressure Ulcer Working Group.

4. Main scientific interests include the physical properties of biomedical systems and of materials, particularly the natural body tissues and biomaterials; investigations of the load-deformation-time behaviour of these materials and the relationship between structure, composition and mechanical properties. Studies of the biological aspects of material and tissue behaviour have included tissue viability, ex vivo haemo- and bio-compatibility studies and the development of quantitative methods for assessing cytotoxicity. Tissue engineering of soft tissues and bone. Improvement of the accuracy of orthognathic surgery and the development of improved dental articulator systems. Instrumentation and the use of Artificial Intelligence techniques to extract information from data.

The research has extended from basic mathematical modelling of biological and biomedical systems to direct clinical applications.

5. Full articles in refereed journals, 117 with >2300 citations. Five books edited.

## **6. Important papers:**

Barbenel, J.C., Jordan, M.M., Nicol, S.M. and Clark, M.O. (1977) The Incidence of Pressure Sores within the Greater Glasgow Health Board Area, *Lancet*, 1977, ii, 548-550.

Lowe, G.D.O., Drummond, M.M., Lorimer, A.R., Hutton, I., Forbes, C.D., Prentice, C.R.M. and Barbenel, J.C. (1980) Relationship between extent of Coronary Artery Disease and Blood Viscosity, *B.M.J.* i, 77-89.

Mihalidis, A., Barbenel, J.C. and Fernie, G. (2004) The efficacy of an intelligent cognitive orthosis to facilitate handwashing by persons with moderate-to severe dementia, *Neuropsychological Rehabilitation*, **14**,135-171.

Walker, F., Ayoub, A.F., Moos, K. F. and Barbenel, J. C. (2008) Face bow and articulator for planning orthognathic surgery:, Brit. J. Oral Maxillofac. Surg., **46**, 1 face bow 567- 572, 2 articulator 573-578.

### **7. Recognitions:**

Prize in Anatomy and Dental Anatomy, University of London, 1956

Honours Physics Medal, University of St Andrew's, 1967

President's Medal, Society of Cosmetic Scientists, 1994

Inaugural Paul Beiersdof Lecture, International Society for Bioengineering and the Skin, 1996

Lifetime Achievement Award, European Pressure Ulcer Advisory Panel, 2002.

### **Visiting Professorships:**

National Engineering University, Lima, Peru

Chongqing University, PR China

University of Technology, Vienna, Austria.

### **Fellowships:**

Institute of Physics

Society of Biology

Institute of Physical Science in Medicine

Royal Society of Edinburgh.

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