

## Personal information form for Fellow members of EAMBES

### Personal Info



Name: Jos AE Spaan

Gender: Male

Date and place of birth: 20-02-1945 Breda the Netherlands

### Present affiliations and functions:

Emeritus Professor Medical Physics at the Academic Medical Center (AMC) of the University of Amsterdam

Editor in Chief of Medical & Biological Engineering & Computing

Present e-mail address: [j.a.spaan@amc.uva.nl](mailto:j.a.spaan@amc.uva.nl)

Webpage address when applicable: <http://www.amc.nl/spaan>

### Short CV

Please indicate

1. Date and university for MSc and PhD degree(s)  
MSc (1970) and PhD (1976) degrees from the Eindhoven University of Technology, Eindhoven the Netherlands.
2. Different professional affiliations with applicable periods  
1976 – 1987 Dept of Physiology and Physiological Physics of the Faculty of Medicine at the University of Leiden.  
1983-1997 part-time professor of Physiological Physics at the Delft University of Technology  
1987-2010 Prof Medical Physics at the Academic Medical Center, AMC, at the University of Amsterdam  
1988 - 2006 head of the Dept. of Medical Physics at the AMC.  
1981 (fall) Visiting Scientist Cardiovascular Research Institute, University of California, San Francisco, USA  
1994 Visiting Scientist Cardiology Division, Johns Hopkins University, School of Medicine, Baltimore, USA  
2003 Visiting Scientist Cardiology Division, University of Iowa, Iowa City, USA
3. Major activities at the national and international level  
Secretary General of the IFMBE (1992-1998)  
Secretary General of IUPESM (1996-1998)  
Editor in Chief Medical & Biological Engineering & Computing (2006-2012)  
EAMBES 1st president Elect 2005  
EAMBES representative Health First Europe (2006-2012)
4. Major scientific interests.  
Central in all his work is the development of engineering models to describe mechanics and

control of blood flow.

5. When applicable the number of journal publications (full articles), total citations, Hirsch Factor and number of patents  
Number of papers 146, total citations 4000, Hirsch factor 34, 3 patents.
6. When applicable, maximal 4 references to papers you find most important and relevant
  - a) Spaan JAE, Piek JJ, Hoffman JIE, Siebes M, Physiological basis of clinically used coronary hemodynamic indices. CIRCULATION 113 (3), 2006, p.446-455
  - b) Spaan JAE, ter Wee R, van Teeffelen JWGE, Streekstra G, Siebes M, Kolyva C, Vink H, Fokkema DS, VanBavel E, Visualisation of intramural coronary vasculature by an imaging cryomicrotome suggests compartmentalisation of myocardial perfusion areas. MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING 43 (4), 2005, p.431-435
  - c) Spaan JA, Coronary diastolic pressure-flow relation and zero flow pressure explained on the basis of intramyocardial compliance. CIRCULATION RESEARCH 56 (3), 1985, p.293-309
  - d) Spaan JA, Breuls NP, Laird JD, Diastolic-systolic coronary flow differences are caused by intramyocardial pump action in the anesthetized dog. CIRCULATION RESEARCH 49 (3), 1981, p.584-593

**Recognitions:**

Please indicate honorary recognitions, prices, fellowships etc.

The Isaac Starr Lecture 2004, Cardiovascular Dynamics Society.

Knighthood in the order of the Dutch Lion. Fellow of the following organisations: American Heart Association, the American Physiological Society (Cardiovascular Section), International Academy for Medical and Biological Engineering, American Institute for Medical and Biological Engineering.

-----