



## Maria Siebes

was born February 14, 1958 in Dinslaken, Germany. She is Associate Professor at the Dept. of Biomedical Engineering and Physics, Academic Medical Center (AMC), University of Amsterdam. Her e-mail address is: [m.siebes@amc.uva.nl](mailto:m.siebes@amc.uva.nl)

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### Short CV

Maria Siebes graduated in 1981 as Dipl.-Ing. (Honors) from the University of Applied Sciences in Giessen, the first institution in Germany to offer a program in Biomedical Engineering. After 2.5 years employment as a Research Engineer in Cardiology at the Kerckhoff-Klinik for Heart and Lung Research in Bad Nauheim, she received a Fulbright Scholarship and started graduate studies in Biomedical Engineering at the University of Southern California in Los Angeles, where she obtained her MS (1984) and PhD (1989) degrees, with support from Am. Assoc. of University Women and Amelia Earhart ZONTA International fellowships. From 1983–1989 she also worked in the Biomedical Image Processing Group of the Jet Propulsion Laboratory/California Institute of Technology in Pasadena, CA.

In 1989, she became Assist. Professor of BME at the University of Iowa in Iowa City, IA, where she received an Outstanding Teacher Award. In 1996, she spent 9 months as a Visiting Scientist at the Cardiovascular Research Institute of the University of Amsterdam. Dr. Siebes returned to Europe in 1997 and worked as a Senior Research Scientist at the Dept. of Cardiology at the AMC. In 2002, she joined the faculty at the Dept. of BME and Physics and was appointed AMC Principal Investigator in 2007.

Her research interests are cardiovascular hemodynamics and perfusion, focusing on the coronary circulation. Her interdisciplinary work ranges from bench to bedside and she is involved in the Virtual Physiological Human initiative. Dr. Siebes is a Fellow of AIMBE, senior member of IEEE-EMBS, and member of Sigma Xi, AHA, APS and national societies. She chaired the IFMBE Women in MBE Committee from 2003-2009 and served as Council Member of EAMBES since 2004. Dr. Siebes is Associate Editor of Medical and Biological Engineering & Computing.

She has 51 journal publications with 749 citations (HF=14) and co-authored 6 book chapters.

### Relevant papers:

- Siebes M, Campbell CS and D'Argenio DZ. Fluid dynamics of a partially collapsible stenosis in a flow model of the coronary circulation. *J Biomech Eng* 118:489-497, 1996
- Siebes M, Chamuleau SAJ, Meuwissen M, Piek JJ, Spaan JAE. Influence of hemodynamic conditions on fractional flow reserve: parametric analysis of underlying model. *Am J Physiol Heart Circ Physiol*, 283:H1462-H1470, 2002.
- Siebes M, Verhoeff BJ, Meuwissen M, de Winter RJ, Spaan JAE and Piek JJ. Single-wire pressure and flow velocity measurement to quantify coronary stenosis hemodynamics and effects of percutaneous interventions. *Circulation* 109:756-762, 2004.
- Spaan JAE, Piek JJ, Hoffman JIE and Siebes M. Physiological basis of clinically used coronary hemodynamic indices. *Circulation* 113:446-455, 2006.
- Kolyva C, Spaan JAE, Piek JJ and Siebes M. Windkesselness of coronary arteries hampers assessment of human coronary wave speed by single-point technique. *Am J Physiol Heart Circ Physiol* 295:H482-H490, 2008.
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