

**Application for
the position:**

**CMR Section
Vice Chair**



Elections to the Board 2014-20145

1. Your Identity

Title: Professor

Family Name(s): Petersen

First Name(s): Steffen E.

Birth Date: 24 August 1970

Type of address: Business

**Institute/Organisation: Queen Mary University of London and Barts
Health NHS Trust**

**Department: William Harvey Research Institute and Department of
Cardiology**

Address: William Harvey Research Institute, Charterhouse Square

Post Code/Zip: EC1M 6BQ

City: London

State / Province: London

Country: United Kingdom

Mobile Phone:

Phone:

Fax: + Not available

Elections to the Board 2014-2016

2. General Curriculum Vitae (300 words max)

Steffen E. Petersen, MD (Dr med) DPHIL (OXON) MPH (Harvard School of Public Health)

Steffen Petersen is Professor of Cardiovascular Medicine at Queen Mary University of London and Barts Health NHS Trust. He has been leading the National Institute for Health Research Cardiovascular Biomedical Research Unit's Centre for Advanced Cardiovascular Imaging at Barts since November 2009.

March 2006 – October 2009: Clinical Lecturer and Honorary Specialist Registrar, Department of Cardiovascular Medicine, John Radcliffe Hospital, Oxford, UK

August 2002 – March 2006: Clinical Research Fellow and Honorary NHS contract (cardiac MRI and Cardiomyopathy Clinic), Dept. Cardiovascular Medicine, John Radcliffe Hospital, Oxford, UK

December 1998 – August 2002: House Officer (18 months) and Specialist Registrar, 2nd Medical Clinic (Cardiology), University Hospital Mainz, Germany

1992-1998: Medical student at Mainz Medical School, Germany with 2 years studying abroad in Liverpool (UK), Wisconsin (US) and Fribourg (Switzerland).

Qualifications:

MPH (Harvard School of Public Health) 2013

CCT Cardiology 2009

CCT General Internal Medicine 2005

DPhil 2005 (Oxford University, "Insights into cardiac remodelling by multi-modal magnetic resonance imaging and spectroscopy")

MD 1998 (University of Mainz, "Gastrointestinal intraluminal long-term pH-measurement in patients with chronic inflammatory bowel disease – in vitro and in vivo evaluation of methodology")

German MB ChB equivalent 1998 (University of Mainz)

Special Awards, Honours and Distinctions

2013: Fellow of the Royal College of Physicians (FRCP)

2011: Fellow of the American College of Cardiology (FACC)

2010: Fellow of the European Society of Cardiology (FESC)

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3. Previous experience(s) in the EACVI or ESC or your National Bodies?

Chair or European CMR Exam Board 2010-2014
Nucleus member of Section CMR since 2012
Ex-officio member of nucleus of Working Group CMR 2010-2012
Programme Co-Chair EuroCMR 2013 conference
Abstract Chair EuroCMR 2014 conference
Programme Chair SCMR-EuroCMR 2015 Joint Scientific Sessions
Member of EACVI Certification committee since 2014
Member of EACVI Education committee since 2014
Co-author of two EACVI consensus manuscripts currently under review
Euroecho 2013 Highlights: Author for CMR section of this publication
Co-Editor of EACVI CMR textbook (work in progress)

4. Publications (please list 10 max)

See separate file.

5. Received Impact Factor(s) : Year / IF

13 publications with impact factor >15:
6 publications in Circulation
6 publications in J Am Coll Cardiol
1 publication in British Medical Journal

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6. Received Hirsch Index : Year / Index

H-index 22 (Web of Science, October 2, 2014)

7. Why are you interested in joining the EACVI Board (150 words max)?

I am well placed to serve on the EACVI Board given my expertise in clinical CMR and my major track record of actively contributing to the CMR research field (1999 to date).

I have shown commitment to high quality education in the field of CMR as faculty on many EACVI Section CMR endorsed courses, EuroCMR conferences and other international conferences and courses.

I have developed the annual European CMR exam into one now recognised as an exam of the highest standard. This exam is a key element of the newly established European CMR certification process. I would be working further to establish processes that would allow colleagues in regions with less CMR experience to become certified in CMR.

If elected, I would bring my commitment, enthusiasm and expertise to the EACVI Board and the membership to support the EACVI and the Section CMR to remain the leading society for cardiac imaging education and in particular CMR education and research.

1. Zemrak F, Ahlman MA, Captur G, Mohiddin SA, Kawel-Boehm N, Prince M, Moon JC, Hundley WG, Lima JAC, Bluemke DA, Petersen SE. The Relationship of Left Ventricular Trabeculation to Ventricular Function and Structure over 9.5-Years Follow-up: The Multi-Ethnic Study of Atherosclerosis. *J Am Coll Cardiol* (in press).
- 2: Petersen SE, Almeida AG, Alpendurada F, Boubertakh R, Bucciarelli-Ducci C, Cosyns B, Greil GF, Karamitsos TD, Lancellotti P, Stefanidis AS, Tann O, Westwood M, Plein S; Education Committee of European Association of Cardiovascular Imaging Association (EACVI). Update of the European Association of Cardiovascular Imaging (EACVI) Core Syllabus for the European Cardiovascular Magnetic Resonance Certification Exam. *Eur Heart J Cardiovasc Imaging*. 2014 Jul;15(7):728-9. doi: 10.1093/ehjci/jeu076. Epub 2014 May 22. PubMed PMID: 24855220.
- 3: Maclean EN, Stone IS, Ceelen F, Garcia-Albeniz X, Sommer WH, Petersen SE. Reporting standards in cardiac MRI, CT, and SPECT diagnostic accuracy studies: analysis of the impact of STARD criteria. *Eur Heart J Cardiovasc Imaging*. 2014 Jun;15(6):691-700. doi: 10.1093/ehjci/jet277. Epub 2014 Jan 23. PubMed PMID: 24459243.
- 4: Partridge JB, Smerup MH, Petersen SE, Niederer PF, Anderson RH. Linking left ventricular function and mural architecture: what does the clinician need to know? *Heart*. 2014 Aug;100(16):1289-98. doi: 10.1136/heartjnl-2013-304571. Epub 2013 Dec 5. PubMed PMID: 24310520.
- 5: Marwick TH, Neubauer S, Petersen SE. Use of cardiac magnetic resonance and echocardiography in population-based studies: why, where, and when? *Circ Cardiovasc Imaging*. 2013 Jul;6(4):590-6. doi: 10.1161/CIRCIMAGING.113.000498. Review. PubMed PMID: 23861451.
- 6: Petersen SE, Matthews PM, Bamberg F, Bluemke DA, Francis JM, Friedrich MG, Leeson P, Nagel E, Plein S, Rademakers FE, Young AA, Garratt S, Peakman T, Sellors J, Collins R, Neubauer S. Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. *J Cardiovasc Magn Reson*. 2013 May 28;15:46. doi: 10.1186/1532-429X-15-46. PubMed PMID: 23714095; PubMed Central PMCID: PMC3668194.
- 7: Genders TS, Steyerberg EW, Hunink MG, Nieman K, Galema

TW, Mollet NR, de Feyter PJ, Krestin GP, Alkadhi H, Leschka S, Desbiolles L, Meijns MF, Cramer MJ, Knuuti J, Kajander S, Bogaert J, Goetschalckx K, Cademartiri F, Maffei E, Martini C, Seitun S, Aldrovandi A, Wildermuth S, Stinn B, Fornaro J, Feuchtner G, De Zordo T, Auer T, Plank F, Friedrich G, Pugliese F, Petersen SE, Davies LC, Schoepf UJ, Rowe GW, van Mieghem CA, van Driessche L, Sinitsyn V, Gopalan D, Nikolaou K, Bamberg F, Cury RC, Battle J, Maurovich-Horvat P, Bartykowszki A, Merkely B, Becker D, Hadamitzky M, Hausleiter J, Dewey M, Zimmermann E, Laule M. Prediction model to estimate presence of coronary artery disease: retrospective pooled analysis of existing cohorts. *BMJ*. 2012 Jun 12;344:e3485. doi: 10.1136/bmj.e3485. PubMed PMID: 22692650; PubMed Central PMCID: PMC3374026.

8: Petersen SE, Wiesmann F, Hudsmith LE, Robson MD, Francis JM, Selvanayagam JB, Neubauer S, Channon KM. Functional and structural vascular remodeling in elite rowers assessed by cardiovascular magnetic resonance. *J Am Coll Cardiol*. 2006 Aug 15;48(4):790-7. Epub 2006 Jul 24. PubMed PMID: 16904551.

9: Petersen SE, Jung BA, Wiesmann F, Selvanayagam JB, Francis JM, Hennig J, Neubauer S, Robson MD. Myocardial tissue phase mapping with cine phase-contrast mr imaging: regional wall motion analysis in healthy volunteers. *Radiology*. 2006 Mar;238(3):816-26. Epub 2006 Jan 19. PubMed PMID: 16424246.

10: Petersen SE, Selvanayagam JB, Wiesmann F, Robson MD, Francis JM, Anderson RH, Watkins H, Neubauer S. Left ventricular non-compaction: insights from cardiovascular magnetic resonance imaging. *J Am Coll Cardiol*. 2005 Jul 5;46(1):101-5. PubMed PMID: 15992642.