

Stanford PROFILES



M Elisabeth Pate-Cornell

THE BURTON J. AND DEEDEE MCMURTRY PROFESSOR IN THE SCHOOL OF ENGINEERING

Management Science and Engineering

 PRINT PROFILE

 EMAIL PROFILE

 VIEW STANFORD-ONLY PROFILE

Bio

Dr. Marie-Elisabeth Paté-Cornell is the Burt and Deedee McMurtry Professor in the School of Engineering and Professor and Founding Chair (2000-2011) of the Department of Management Science and Engineering at Stanford University. Her specialty is engineering risk analysis with application to complex systems (space, medical, offshore oil platforms, etc.). Her earlier research has focused on the optimization of warning systems and the explicit inclusion of human and organizational factors in the analysis of systems' failure risks. Her recent work is on the use of game theory in risk analysis with applications that have included counter-terrorism, nuclear counter-proliferation problems and cyber security. She is the author of more than one hundred publications, and the co-editor of a book on Perspectives on Complex Global Problems (2016).

She is a member of the National Academy of Engineering, of the French Académie des Technologies, of the NASA Advisory Council and of several boards including the Board of Advisors of the Naval Postgraduate School and the Navy War College. Dr. Paté-Cornell was a member of the President's Foreign Intelligence Advisory Board from December 2001 to 2008, of the board of the Aerospace Corporation (2004-2013) of Draper Laboratory (2009-2016), and of InQtel (2006-2017). She holds a BS in Mathematics and Physics, Marseille (France), an Engineering degree (Applied Math/CS) from the Institut Polytechnique de Grenoble (France), an MS in Operations Research and a PhD in Engineering-Economic Systems, both from Stanford University.

Academic Appointments

Professor, Management Science and Engineering

Administrative Appointments

Former Chair, Department of Management Science and Engineering (2000 - 2011)

Member, Board of Advisors of NPS Monterey (2012 - Present)

Honors & Awards

Best-paper Award for the year, Military Operations Research Journal (2003)

Fellows Award, Institute for Operations Research and the Management Sciences (INFORMS) (2002)

Distinguished Achievement Award, Society for Risk Analysis (2002)
Award for Meritorious Civilian Service, U.S. Air Force (2002)
Teaching Award for graduate teaching at the doctoral level, Stanford Department of Management Science and Engineering (June 2002)
Best paper of the year, IEEE Engineering Management Society (EMS) (2001)
Member, National Academy of Engineering (1995)
Council member, National Academy of Engineering (2001)
President, Society for Risk Analysis (1995-1996)
Fellow, Society for Risk Analysis (1995)
Conseiller, (Advisor), French Academy of Engineering (2001)
Member, French Academy of Engineering (2003)
Chair, Decision Analysis Society of the Institute for Operations Research and the Management Sciences (2002-03)
Decision Analysis Publication Award for the year, Decision Analysis Society of the Institute for Operations Research and the Management Sciences (1994)
Stanford Fellow, NASA-ASEE (1994)
Finalist-Edelman Management Award, The Institute for Management Science (May 1993)
Best Paper Award, American Nuclear Society (June 1990)
Visiting Professor, Ecole Normale Supérieure, Cachan, France (March 1996)
Visiting Scholar, Electric Power Research Institute, Palo Alto, CA (January-March, 1995)
Visiting Scholar, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria (July-August 1979)

Boards, Advisory Committees, Professional Organizations

Member, National Academy of Engineering (2013 - Present)

Professional Education

PhD, Stanford University (1978)

CONTACT

Academic

mep@stanford.edu

University - Faculty

Department: Management Science and Engineering

Position: Professor

Huang Engineering Building, Room 336

475 Via Ortega

Stanford, California 94305-4026

(650) 723-3823 (office)

(650) 736-1945 (fax)

Administrative contact

Sarina Gaeta

Administrative Associate