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Raffaella Ocone, holds the Chair of Chemical Engineering in the School of Engineering and Physical Sciences at Heriot-Watt University (HWU). Before joining HWU, she was a Reader in Chemical Engineering in the Department of Chemical Engineering at Nottingham, Lecturer at the University of Naples, Italy, and Visiting Professor at Louisiana State University, USA and the University Claude Bernard, France. In 2006 she was awarded a Royal Academy of Engineering/Leverhulme Trust Senior Research Fellowship and a Royal Society of Edinburgh/Scottish Government Support Fellowship to model carbon capture through chemical looping technology, in 2010.

Raffaella has more than 25 years of experience in modelling complex systems. She has contributed about 185 journal papers and papers at International conferences and published a book on “Transport Phenomena” (Elsevier). Her main research work has application in areas from the hydrodynamics of granular materials to the physics of chemical looping combustion, which is seen as one of the most promising technologies in the development of carbon capture and storage. She has also worked on the underlying principles of thermal and catalytic crackers and hydrodesulphurisation plants. Raffaella has taken a leading role in debate on the ethics of engineering and chaired the Royal Academy of Engineering’s Teaching Ethics group. She has experience in the realm of the public understanding of science; this has included initiatives that bring the importance of science and engineering to wider audiences, including school children. In 2007 was awarded by the Italian Government with the honour of “Cavaliere of the Order of Merit” for scientific merit.