

Presentation of Elisabetta Rocca
Junior ISIMM Prize awardee 2014 (ex-aequo)

Elisabetta Rocca completed her undergraduate studies and defended her PhD in Pavia in February 2004 under the supervision of Gianni Gilardi.

She was appointed as Assistant Professor (tenured) at the University of Milan in January 2004 and then promoted as Associate Professor in November 2010. She is Research Associate to the Institute of Applied Mathematics and Information Technologies *Enrico Magenes* of the CNR in Pavia since November 2012. Starting from October 2013 she also holds a permanent position at the Weierstrass Institute for Applied Analysis and Stochastics in Berlin where she is presently Head of the ERC Research Group *Entropy Formulation of Evolutionary Phase Transitions*.

Elisabetta Rocca's scientific activity spans a variety of different applied mathematics themes, all strictly related with modeling and analysis of thermo-mechanical problems in continua and fluids. She is interested in well-posedness of problems, regularity, and long-time behavior of solutions for models from phase transition and separation, to viscoelasticity and damage, to non isothermal liquid crystals.

Her results are collected in 49 papers, also in collaboration with 16 coauthors from 7 different countries. She is regularly invited to lecture at international conferences, and spent invited periods at Fudan University in Shanghai, the Mathematical Institute of the Academy of Sciences of The Czech Republic in Prague, University of Bath, and the Laboratoire Central des Ponts et Chaussées in Paris.

In April 2011 Elisabetta Rocca was awarded one of the prestigious *ERC Starting Grants* from which her research group in Berlin is now partially funded.

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