Preface

This volume contains some of the contributions presented at the 2nd Workshop on Corrosion Modeling for Life Prediction (CMLP 2010), Rome, Italy, 18 to 20 April 2010, held under the auspices of the Office of Naval Research Global and the Università degli Studi di Milano.

In organizing the workshop every effort was made to invite corrosionists working in the field of lightweight alloys and dealing with modelling. Their expertise provided a base to discuss corrosion problems and solutions for Military and Aerospace Systems and Facilities, thus laying the foundations for tackling still unsolved issues.

The use of lightweight metals and composites to replace heavy structural materials for military hardware and weapon systems (ships, aircraft, ground vehicles, etc.) is a new strategic requirement for defence forces, falling under Naval S&T Strategic Plans. Objectives of the workshop were to seek the state of the art outside the continental United States in the field of low density metallic materials and composites for structural applications, as well as in modeling and simulation software tools capable of generating and identifying damage evolution data for health monitoring, corrosion control, life prediction and assessment of civil and military hardware systems.

We would like to use this opportunity to gratefully acknowledge the invaluable contribution, to make the Workshop a success, of all those participating in this venture, from the organizers to supporting institutions and companies, to speakers and attendees, as well as to the hotel staff, despite the volcanic eruption occurred in Island in the very days of this event.

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