

PREFACE

The “20th Symposium on Composites”, held in Vienna, Austria, from July 1-3, 2015, presented an excellent opportunity of bringing together researchers mainly from Germany, Austria, and Switzerland to present and discuss latest developments and trends in all aspects of composites. This series of symposia on composites have become a popular forum for high-level scientific and technical exchange of ideas in a wide range of specialist topics such as polymer, metal, and ceramic composites, interpenetrating materials, hybrid structures and laminates, wear and abrasion composites, coatings, testing and simulation, manufacturing technology, structural health monitoring, bio composites, recycling and sustainability. This three-day symposium aimed to be a platform for discussions between attendants from academia and industry.

The contributions were allocated into invited talks of six renowned keynote speakers, more than 150 oral and 40 poster presentations. These proceedings are divided into 12 different topical sections and contain a large, but selected part of the presented material.

The conference was organized by „Gemeinschaftsausschuss Verbundwerkstoffe (GAV)“ within “Deutsche Gesellschaft für Materialkunde e.V. (DGM)“, together with the Vienna University of Technology, Austria.

The editors of this volume of “Materials Science Forum” and the organizing scientific committee of this conference together with DGM hope that all participants had a good time in Vienna, full of fruitful discussions, new ideas, and, of course, also enjoyed the lovely city of Vienna and the social program.

Christian Edtmaier & Guillermo Requena

Editors



Christian Edtmaier
Technische Universität Wien
Vorsitzender



Guillermo Carlos Requena
Deutsches Zentrum für Luft-
und Raumfahrt (DLR)
Vorsitzender

Scientific Committee



Vasiliki-Maria Archodoulaki
Technische Universität Wien



Aldo R. Boccaccini
Friedrich-Alexander-
Universität Erlangen-
Nürnberg



Helmut Böhm
Technische Universität Wien



Henri Cohrt
Carbon Composites e.V.



Herbert Danning
Technische Universität Wien



Roland Haubner
Technische Universität Wien



Joachim Hausmann
Institut für Verbundwerkstoffe
Kaiserslautern



Heinrich Kern
Technische Universität
Ilmenau



Dietmar Koch
DLR-Institut für Bauweisen-
und Konstruktionsforschung,
Stuttgart



Thomas Konegger
Technische Universität Wien



Walter Krenkel
Universität Bayreuth



Daisy Nestler
Technische Universität
Chemnitz



Wolfgang Paatsch
Bundesanstalt für
Materialforschung und -
prüfung, Berlin



Jürgen Stampfl
Technische Universität Wien



Frank Vollertsen
Bremer Institut für angewandte
Strahltechnik GmbH



Guntram Wagner
Technische Universität
Chemnitz



Ludger Weber
École Polytechnique Fédérale
de Lausanne



Roland Weiß
Schunk Kohlenstofftechnik
GmbH



Bernhard Wielage
Technische Universität
Chemnitz