

EDITORIAL

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Editorial: 50th Annual Meeting of the Brazilian Dental Materials Group

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The 50th Annual Meeting of the Brazilian Dental Materials Group, known by the acronym in Portuguese GBMD (Grupo Brasileiro de Materiais Dentários), was held in Pelotas, Rio Grande do Sul state, Brazil between July 30th and August 1st, 2014. The conference was chaired by the Dental Materials Division of the Graduate Program in Dentistry from Federal University of Pelotas. In total, 11 researchers lectured, 247 research posters were presented, and above 400 attendees participated in the meeting. The GBMD meetings intend to provide a forum for researchers to present cutting edge research about the latest breakthroughs and technologies in the dental materials area. Special attention is given to the opportunity in knowledge exchanging between professors, researchers, graduate and undergraduate students to inspire the youth to pursue a research carrier in dental materials. This special issue of *Applied Adhesion Science* (AAS) contains five selected papers presented in the meeting. All papers were submitted through the AAS online submission system and were peer reviewed. The papers address relevant questions in adhesive dentistry, particularly related to new adhesive materials and clinical techniques.

In addition to these five selected papers and the 247 posters presented in the Poster Sessions, the invited oral speakers presented meaningful lectures during the meeting: “Infrared FTIR spectroscopy: theory, techniques and applications in dental materials research” by Prof. Fabrício Ogliari (Federal University of Pelotas, Brazil); “Degradation and fracture mechanisms in natural versus artificial dental materials” by Prof. Ulrich Lohbauer (University of Erlangen-Nuremberg, Germany), “Formulation of dental materials based on predictable performance” by Prof. Fabrício Collares (Federal University of Rio Grande do Sul, Brazil); “Fatigue damage mechanisms and failure prevention in all-ceramic restorations” by Prof. Yu Zhang (New York University, USA); “Development of calcium phosphate-containing bioactive composites”, by Prof. Roberto Braga (State University of São Paulo, Brazil); “Reflection on 50 years of clinical research of dental materials and what should be the next steps” by Prof. Stephen Bayne (University of Michigan, USA); “Advances and challenges of tissue engineering in dentistry” by Prof. Rodrigo Carvalho (North University of Paraná, Brazil); “Relevance of dental materials research in the perspective of real world dentistry” by Prof. Niek Opdam (Radboud University Nijmegen, The Netherlands); “Polymerization shrinkage effects on the performance of direct and indirect restorations” by Prof. Carlos Soares (Federal University of Uberlândia, Brazil); “Activation – crucial step in the success of adhesive restorations” by Prof. Luis Felipe Schneider (Federal Fluminense University and Veiga de Almeida University, Brazil); “Recent advances in all-ceramic restorations” by Prof. Alvaro Della Bona (University of

Passo Fundo, Brazil); “Developments in ceramic and polymeric materials in the last 50 years” by Profs. Ulrich Lohbauer & Yu Zhang; and “Clinical developments in use of dental materials and restorative techniques in the last 50 years” by Profs. Stephen Bayne & Niek Opdam. This issue is the Second Special Issue with papers selected from GBMD meetings published in AAS. This is an important step for the consolidation of the GBMD as an internationally relevant group.

Acknowledgements

The organizing committee of the 50th GBMD meeting thanks the meeting sponsors and all colleagues who helped to organize the conference. We also thank the referees who served as reviewers for the selected papers included in this Special Issue.

Received: 15 December 2014 Accepted: 15 December 2014

Published online: 17 March 2015

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