



## Special edition of “Wear” to contain CM2015 proceedings



This Special Issue of *Wear* contains papers that were presented at the 10th conference on “Contact Mechanics and Wear of Rail/Wheel Systems” in Colorado Springs, USA in the late summer of 2015. The hard work of colleagues at TTCI (the Transportation Test Center of the Association of American Railroads) ensured a return of the conference series to North America, which had previously hosted three of the conferences but none since 1994. The conference continues to be both well and enthusiastically attended, with 175 registrations and 125 presentations. There are oral presentations only (no poster sessions), in 3–4 parallel sessions.

Sixty-nine papers were submitted for publication in this Special Issue of *Wear*, of which 48 have been accepted after an initial review to consider relevance to the objectives of *Wear* c.f. the CM conference series, followed by the usual peer-reviewing procedure. Of the papers that were accepted, there is an excellent mix from all areas of contact mechanics of the rail/wheel system. Few of the papers if any are based on mathematical modelling alone. Probably the single largest area is the relatively broad one of wheel and rail damage: wear, plastic deformation, rolling contact fatigue, white-etching layer, and other wheel and rail defects. Three areas in particular stand out as having attracted broad attention: damage within switch and crossing work, the evolution of wheel profiles as a result of wear and the effects of friction modifier. This Special Issue includes not only wear-related contact problems, but also broader topics associated with the scope of the CM Conferences. These include computations of stresses and temperatures, fatigue and fracture and preventative maintenance methods.

Every publication of this type requires an immense amount of hard work by the scientific community. This community, which itself benefits from the publication, comprises not only the authors, but also the many others who have reviewed papers, many of whom have attended this or other CM conferences. The Guest

Editors, known as the RAMSS, are immensely grateful to colleagues in our scientific community who have not only helped make it possible to publish this Special Issue of *Wear* but who have undertaken reviews and revisions expeditiously, thereby ensuring that publication will be well inside two years from the date of the conference. Our colleagues at TTCI hosted a varied, well organised and most enjoyable conference of a high technical standard. The next conference in the series will be in Delft in 2018.

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