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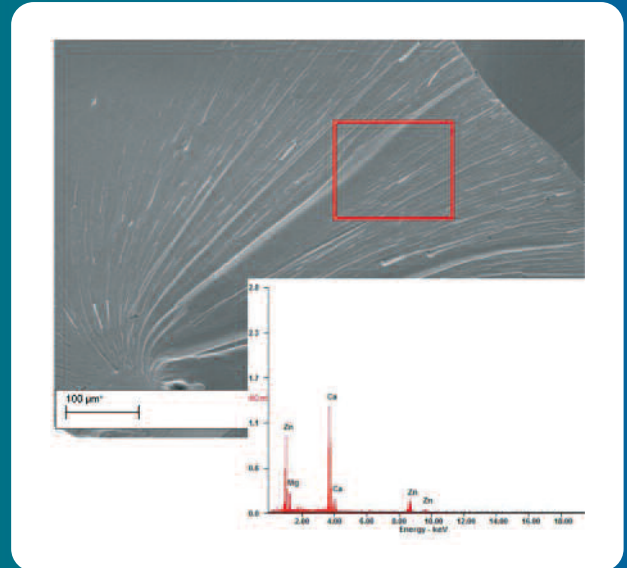


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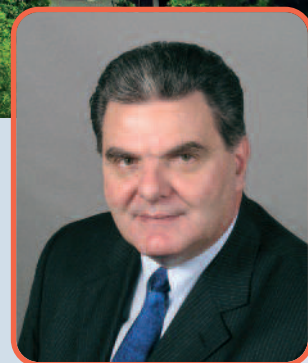
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## Selected materialographical photo



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In the paper entitled "Fabrication of ternary Ca-Mg-Zn bulk metallic glasses" written by R. Nowosielski, A. Borowski, A. Guwer, R. Babilas (a **page 67**) the preparation, structure and thermal properties of ternary Ca-Mg-Zn bulk metallic glass in form of as-cast rods are described. The X-ray diffraction investigations have revealed that the studied as-cast rod was amorphous. The fractures of studied alloy could be classified as mixed fracture with indicated "river" and "smooth" fractures. Both type of the fracture surfaces consist of weakly formed "river" and "shell" patterns and "smooth" regions. The "river" patterns are characteristic for metallic glassy alloys. The studied Ca-based bulk metallic glasses is a relatively new group of material. Ca-based bulk metallic glasses are applied for many applications in different elements. Ca-based bulk metallic glasses have many unique properties such as low density (~2.0 g/cm<sup>3</sup>), low Young's modulus (~20 to 30 GPa). The elastic modulus of Ca-based BMGs is comparable to that of human bones, and Ca, Mg, and Zn are biocompatible. These features make the Ca-Mg-Zn-based alloys attractive for use in biomedical applications.



## Dear Readers,

I am going to invite our Readers to the 7<sup>th</sup> International Conference on Materials for Advanced Technologies (ICMAT 2013) will be held at Suntec Singapore Convention Centre from 30<sup>th</sup> June to 5<sup>th</sup> July 2013, although the date is very closed to the 21<sup>st</sup> International Scientific Conference on "Achievements in Mechanical and Materials Engineering" AMME 2013 organised in Kraków, Poland on 23<sup>rd</sup> to 26<sup>th</sup> June 2013 by the World Academy of Materials and Manufacturing Engineering. Suntec Singapore is a world-class venue located at the heart of Asia's most integrated meetings, conventions and exhibitions hub. On the cover photos we present the newest centre of Marina Bay Sands which is an Integrated Resort fronting Marina Bay in Singapore. The complex is topped by a 340-m-long Sky Park with a capacity of 3,900 people and a 150 m infinity swimming pool, set on top of the world's largest public cantilevered platform, which overhangs the north tower by 67 m. The Materials Research Society of Singapore (MRS-S) as the organiser of the ICMAT 2013 was created in 1999 as a not-for-profit organisation to serve a rapidly emerging materials science community in Singapore. Since its inception the focus of MRS-S has been to promote materials science not only to researchers in Singapore, but also to publicise the niche capabilities of local researchers throughout Asia and further field. The Society's major activity is the organisation of a biennial event – the International Conference on Materials for Advanced Technologies or ICMAT – that is held in June/July and attracts more than 2000 delegates from all over the world. The next issue of JAMME reaches PT Readers and we hope as usual that it will be interesting. We invite to both conferences in Singapore and Poland. Information about the conference organized in Poland can be found on the back cover. We wish an interesting reading.

Gliwice, in January 2013

Prof. Leszek A. Dobrzanski M Dr hc  
Editor-in-Chief of the JAMME  
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