## nanomech 5

This issue of the Zeitschrift für Metallkunde includes papers from the NanoMech-5 Conference – the 5th European Symposium for Nanomechanical Testing – held in Hückelhoven, Germany from September 23–25, 2004. The conference focused on depth-sensing indentation testing which is a relatively new technique to extract quantitative data out of smallest sample volumes. Standard techniques have been developed to extract the hardness and elastic properties from the load-displacement curves by a fit to the unloading part of the graph.

Prof. Peter Grau from the Martin Luther University Halle-Wittenberg, Germany, is a founding member of this conference series and worked for now 5 years in the programme committee. His contributions in organizing this conference were very helpful in bringing together scientists from all around the world. For example, well-known parts in this conference series every year are the video sessions, where experts are discussing new results with the conference participants in Hückelhoven. Peter Grau celebrated his 65th birthday in December 2004, when he officially retired from his duties as a professor for physics at the University Halle–Wittenberg. He will also step down from his responsibilities as a member of the programme committee after the next conference in 2005.

Peter Grau worked in his career on many different materials from glasses and ceramics to polymers and semiconductors. He studied the rules of deformation when materials are deformed by indentation testing. These are the strainrate dependence of glasses and the influence of the dislocation density and surface structure on the dislocation emis-



sion during the pop-in events in GaAs. Therefore, this volume is also dedicated to Peter Grau, to the occasion of his 65th birthday.



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