



QUADRANT

QUADRANT AWARD 2007

International Award for Academic Excellence
in Engineering Plastics and Composites

The winners are:

1st prize: **Woo Soo Kim**

Korea Advanced Institute of Science and Technology (KAIST), Korea
Post-doctoral studies: Massachusetts Institute of Technology, USA

2nd prize: **Kirt Page**

The University of Southern Mississippi, USA
National Research Council post-doctoral studies:
National Institute of Standards and Technology, USA

3rd prize: **Kyriaki Kalaitzidou**

Michigan State University, USA
Post-doctoral studies: University of Massachusetts, USA



The winners of the Quadrant Award 2007 (left to right): Dr. Kirt Page (2nd prize), The University of Southern Mississippi, USA; Dr. Kyriaki Kalaitzidou (3rd prize), Michigan State University, USA; Dr. Woo Soo Kim (1st prize), Korea Advanced Institute of Science and Technology, Korea.

Quadrant is a leading global manufacturer of high-performance thermoplastic materials in the form of semi-finished products and finished parts. The speciality engineering thermoplastics and composites manufactured and marketed by more than 2000 employees worldwide are superior in performance to metals and other materials and are used in a growing number of applications, primarily in the capital goods industry. Together with leaders in a wide range of customer markets, Quadrant is continuously developing new areas of application.

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PRESENTATION OF THE QUADRANT AWARD 2007

QUADRANT AG, SWITZERLAND

Quadrant, a global leader in the manufacture of high-performance thermoplastics and composites, conferred the coveted international «Quadrant Award» for the second time on Saturday, January 20, 2007. This scientific award with a prize of EUR 15 000 was won by Woo Soo Kim of Korea, who wrote his thesis at the Korea Advanced Institute of Science and Technology (KAIST), Korea, and is now pursuing post-doctoral studies at the Massachusetts Institute of Technology in the USA. The second prize of EUR 7 000 went to American entrant Kirt Page, from The University of Southern Mississippi, USA, who is currently engaged in National Research Council post-doctoral studies at the National Institute of Standards and Technology, USA. The winner of the third prize of EUR 3 000 was Kyriaki Kalaitzidou from Greece, at Michigan State University, USA, who is now pursuing post-doctoral studies at the University of Massachusetts, USA.

The academic jury awarded the first prize to Woo Soo Kim for his thesis entitled «Synthesis and Characterization of UV Curable Fluorinated Hybrimers for Nano Imprints», because he *«presented a thorough research project which encompasses the synthesis of the materials, their characterization and a promising path towards their application in the rapidly growing field of nano-patterning»*. The second prize was awarded for the thesis entitled «The Influence of Electrostatic Interactions on Chain Dynamics and Morphological Development in Semi-Crystalline Perfluorosulfonate Ionomers for Fuel Cell Applications» by Kirt Page, who impressed the jury *«with his rigorous characterization and deep understanding of the structure of functionalized polymer ionomers»*. Kyriaki Kalaitzidou was awarded a prize for her thesis entitled «Exfoliated Graphite Nanoplatelets as Reinforcement for Multifunctional Polypropylene Nanocomposites». The jury appreciated *«the innovative use of graphite platelets and the progress made towards carbon fibre or carbon nanotube substitutes in polymer composites»*. The event took place at the Swiss Federal Institute of Technology (ETH) in Zurich in the presence of numer-

ous guests from industry and academia. The international invitation to submit entries for the award was addressed to graduates who had written a doctoral thesis in the subject field of «Materials and processes related to engineering and high-performance plastics and composites» between August 1, 2005, and October 31, 2006. A letter of recommendation from the professor supervising the thesis was necessary for each application.

The members of the academic jury are on the staff of internationally acclaimed universities or institutions, have many years of experience in the field of materials and plastics sciences and supervise numerous doctoral candidates annually. The members of the academic jury are: Professor Dr. Volker Altstädt, Director of the Department of Polymer Engineering, University of Bayreuth, Germany; Professor Dr. Martin Gruebele, Lycan Professor of Chemistry and Professor of Physics at the University of Illinois at Urbana-Champaign, USA, and Director of the Center for Biophysics and Computational Biology; Professor Dr. Jan-Anders Månson, Vice-President and Head of Innovation and Technology Transfer,



The Quadrant Award designed by distinguished Swiss artist Beat Zoderer.

École Polytechnique Fédérale de Lausanne, Switzerland, and Professor Dr. Ignaas Verpoest, Professor at the Department of Metallurgy and Materials Engineering, Katholieke Universiteit Leuven, Belgium. Professor Dr. Paolo Ermanni, ETH Zurich, Centre of Structure Technologies, presided at the event as a non-jury member.

The number of international entries received was encouraging, and especially also the quality of the papers submitted. The launch of the international Quadrant Award is intended to foster talent worldwide and facilitate access to industry for plastics scientists and engineers after completion of their academic training. Quadrant also aims to make a contribution in building a bridge between industry and academia. Customers and guests from the business and research communities were invited to the award presentation ceremony for the first time in 2007 in order to make this attractive platform accessible to a wider circle of interested parties. The next Quadrant Award will be conferred in 2009.

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