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12TH EUROPEAN MEETING ON FIRE RETARDANT POLYMERS

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The 12th European meeting on fire retardant polymer was held in the period of August 31 – September 3, 2009 in Poznan (Poland) on the base of the Institute of Natural Fibres and Medicinal Plants (INF&MP). The chairman of the Conference was Prof. Dr. Ryszard M. Kozłowski from INF&MP. Dr. Maria Władka-Przybylak, Dr. Dorota Wesolek, M.Sc. Izabela Maciejowska, M.Sc. Malgorzata Muzyczek, M.Sc. Maria Mackiewicz-Talarczyk, Dr. Joanna Foksowicz-Flaczyk, M.Sc. Wojciech Polaniak and Dr. Jorge Barriga Bedoyawere were members of the Organizing Committee of this conference.

World well known scientists in the field of polymer chemistry and chemical physics were members of the Scientific committee of this conference: Prof. Serge Bourbigot (ENSCL, Lille, France), Prof. Giovanni Camino (Politecnico di Torino, Alessandria, Italy), Prof. Jose-Marie Lopez-Cuesta (Ecole des Mines d'Ales, France), Prof. Manfred Doring (Institute for Technical Chemistry, Eggenstein-Leopoldshafen, Germany), Prof. John R. Ebdon (University of Sheffield, Sheffield, UK), Dr. Jeffrey W. Gilman (NIST, Gaithersburg, USA), Prof. A. Richard Horrocks (University of Bolton, Bolton, UK), Prof. Yuan Hu (University of Science and Technology of China, Hefei, Anhui, China), Prof. Richard Hull (University of Central Lancashire, Preston, UK), Prof. Baljinder Kandola (University of Bolton, Bolton, UK), Prof. Dr. Ryszard Kozłowski (INF&MP, Poznan, Poland), Prof. Menachem Lewin (Polytechnic University, Brooklyn, USA), Prof. Richard Lyon (FAA, Atlantic City, USA), Prof. Gyorgy Marosi (Budapest University of Technology and Economics, Budapest, Hungary), Prof. Dennis Price (University of Bolton, Bolton, UK), Dr. Maria Władka-Przybylak (INF&MP, Poznan, Poland), Dr Bernhard Scharfel (BAM, Berlin, Germany), Prof. Jose Torero (University of Edinburgh, Edinburgh, UK), Prof. Jianqi Wang (Beijing Institute of Technology, Beijing, China) and Prof. Charles A. Wilkie (Marquette University, Milwaukee, USA).

200 scientists from 19 countries (Poland, USA, UK, Germany, Italy, Russia, Israel, South Korea, China, France, Luxembourg, Uzbekistan, Hungary, The Netherlands, India, Switzerland, Egypt, Sweden, Belgium) took part in

this conference and represented 70 research centers of universities, institutes and companies.

The FRPM 09 scientific topics cover the following:

- Fundamental aspects in fire behavior and fire retardancy

- Fire retardancy of polymer
- Fire retardancy of fibres and textiles
- Fire behaviour of composites
- Nanoscience and synergy
- New materials/fire protective materials
- Industrial application
- Regulation and standardization
- Environmental aspect

Prof Grzegorz Szychalski (General Director INF&MP, Poland) was the speaker of the official opening. He spoke about science and application of polymers in the field of flammability.

The scientific programme of the conference was divided into 9 sessions. The first session "Nanocomposite in flame retardancy" included 2 plenary lectures (Prof M. Lewin (Polytechnic University, Brooklyn, USA) and Prof. Giovanni Camino (Politecnico di Torino, Alessandria, Italy)) and 4 oral presentations.

The second session "Nanoscience and synergy" included one plenary lecture by S. Bourbigot, S. Duquesne, G. Fontaine, Procèdes d'Elaboration des Revêtements Fonctionnels (PERF), Ecole Nationale Supérieure de Chimie de Lille (ENSCL), Cedex, France), 5 oral presentations and 5 panel presentation.

The third session "Fire retardant mechanism" included 2 plenary lectures (B. Scharfel, U. Braun (BAM Federal Institute for Materials Research and Testing, Berlin, Germany) and Richard Hull, Anna A Stec, P. Patel and S. Nazare, Centre for Fire and Hazards Science, University of Central Lancashire, Preston, UK, Fire Materials Laboratory, CMRI, University of Bolton, Bolton, UK) and 3 oral presentations.

The 4th session "Fire retardants of polymer" included 4 oral presentations.

The next 5th session "New materials" included 2 plenary lectures (R. Kozłowski, M. Władka-Przybylak, M. Muzyczek, Institute of Natural Fibres & Medicinal Plants, Poznan, Poland) and Gy. Marosi, B. Marosfoi,

B. Bodzay, A. Toldy, T. Igricz, P. Anna (Budapest University of Technology and Economics, Organic Chemistry and Technology Department), as well as 4 oral presentations and 5 panel presentations.

The 6th session “Fire retardant textiles” included 2 plenary lectures (A. Richard Horrocks (University of Bolton, Bolton, UK) and R. Davis, J. Gilman (Materials Flammability Group Building and Fire Research Laboratory National Institute and Technology, Gaithersburg, USA) and 9 oral presentations.

The 7th session “Environmental aspects and toxicity” included one plenary lecture by Jurgen H. Troitzsch (Fire Protection Service, Germany), 5 oral presentations and 7 panel presentations.

The 8th session “Material flammability” included 2 plenary lectures (S.I. Stoliarov, N. Safronava,

S. Crowley, R. E. Lyon (SRA International, Inc., Linwood, USA, SRA International, Inc., Linwood Federal Aviation Administration, Airport and Aircraft Safety Research and Development Division, W. J. Hughes Technical Center, Atlantic City, USA) and Yu-Zhong Wang (Center for Degradable and Flame-Retardant Polymeric Materials, College of Chemistry, Sichuan University, Chengdu, China State Key Laboratory of Polymer Materials Engineering, Chengdu, China) as well as 3 oral presentations.

The 9th session “Technical applications” included 9 oral presentations.

The 12th conference showed that the problem of flammability of polymeric materials and decreasing of flammability is still very important for pure and applied chemistry as well as for industry.