18-20 June 2001

BOOK OF PROCEEDINGS

Technical Sessions 2 and 3

Powielanie, przedrukowywanie i rozpowszechnianie referatów bez zgody autorów jest zabronione.
Session Two:

**Transport packaging and logistics. Testing methods.**

**Modified packaging materials and primary packaging.**

**Sub-session 1**

**Testing methods of transport packaging. Packaging of dangerous goods**

Test requirements and quality assurance measures in the new dangerous goods legislation following the structural reform, Lutz Klauder, Institute for Consultancy, Research, System Planning, Packaging Development and Testing BFSV, Germany

Description and test report of a new plastic transport packaging, Dr Monika Kassmann, Dresden University of Technology, Germany

The development of test procedures for the investigation of the chemical/physical compatibility of PE packaging for the transport of dangerous goods (CHEMPACK), Ton Schilperoord, TNO Industrial Technology, The Netherlands

Optical measuring methods for development of packages, Thomas Trost, Packforsk-Swedish Packaging Research Institute, Sweden

Torque of screw type closures of plastic jerricans from view of testing houses, Dr Amir Samadjavan, ofi-Plastics Institute, Austria

Damage boundary analysis on products - Proposal of new test methods for mechanical-shock fragility of products, Takamasa Nakajima, Yoshiharu Teragishi, Technology Research Institute of Osaka Prefecture, Katsuhiko Saito, Kobe University of Mercantile Marine, Japan

The dynamic behaviour of precompressed corrugated fibreboard, Merv Minett, Michael Sek, Victoria University of Technology School of the Built Environment. Faculty of Engineering and Service, Australia

**Packaging - a quality operation?** Stefan Engstrom, Packforsk-Swedish Packaging Research Institute, Sweden

**Active packaging of fruits and vegetables**, Dr Soeren Oestergaard, Danish Technological Institute, Denmark
Session Two:


Sub-session 2

Transport hazards. Logistics.

Remote monitoring of vehicle shock and vibrations, Vincent Rouillard, School of the Built Environment, Faculty of Engineering and Service Victoria University of Technology, M.Hildebrandt, Satellite Telemetry Pty, Australia

Statistical modelling of predicted non stationary vehicle vibrations for simulation purposes, Vincent Rouillard, Michael A. Sek, Mark Wrzesinski, School of the Built Environment, Faculty of Engineering and Service Victoria University of Technology, Australia

Optimisation of packaging through an integrated approach to the measurement and laboratory simulation of transportation hazards, Michael Sek, School of the Built Environment, Faculty of Engineering and Service Victoria University of Technology, Australia

Mechanical impacts on packages during container sea transport: results from a research study, Dr Thomas Goedecke Federal Institute for Material Research and Testing BAM, Thomas Blome Institute for BFSV, Germany

Packaging concepts for internet-based trading systems, Sven Dirkling Fraunhofer-Institute for Material Flow and Logistics, Germany

Transport simulation of goods for packaging optimisation, Eduardo Domingo Alcaide, AIDIMA Technical Manages Packaging and Transport Department, Spain

Logistical packaging challenges for e-commerce, Prof. Paul Singh, Michigan State University, USA

Temporary corrosion inhibition protection with VCI-packagings for the shipment of zinc coated steel parts and other metallic goods - Testing of the corrosion protection effect, Dipl. Ing. Wolfgang Reimers, Institute for BFSV, Germany

Sub-session 3

Improvement of packaging materials and packaging through their modification
Influence of the low temperature plasma on physical and chemical properties of PP films for packaging purposes, Dr Jan Gołębiowski, Prof. dr Marian Żenkiewicz, Institute of Polymer Processing METALCHEM, Poland

Characterisation of barrier properties in blends made of PE/liquid crystalline polymer and PET/liquid crystalline polymer, G. Flodberg, A. Hellman, L. Hojvall The Foundation Packforsk-The Institute for Packaging and Distribution; M.S.Hedenqvist University of Stellenbosch, Institute of Polymer S U.W.Gedde Royal Institute of Technology, Sweden

Wide-mouth PET bottles: achieving hot-filling ability through multi-layer reinforcement, Dr Robert M. Kimmel, College of Agriculture, Forestry and Life Sciences Clemson University; A. Wolf Ticona; J. Penoyer Celanse AG, USA

Insecticide biodegradable polymeric films for non-food products packaging, Anna V.Makarevich, Galina Vlasova Metal-Polymer Research Institute of National Academy of Sciences of Belarus, Gomel; V.Sytsko, State Cooperative Institute, Belarus


Sub-session 1 National reports: restructuring of R+D and packaging development trends in Central and Eastern Europe. Forecasts of technical progress. Human resources development

Restructurization and ownership transformation of research and development units, Prof. dr hab. Irena Hejduk, Prof. dr inż. Wiesław M. Grudzewski, Warsaw School of Economics, Poland

Present status and future trends of the Hungarian packaging industry and its R&D basis, Dr Bela Kertesz, Hungarian Association of Packaging and Materials Handling, Hungary

Actual situation and prospects of packaging industry in Slovak and Czech Republic, PhD. Anna Diacikova Chemosvit, Slovakia, Vlado Volek, Czech Packaging Association SYBA, Czech Republic

Present status and future trends of packaging industry and its R+D base in Latvia, Undine Bude, Packaging Institute of Latvia, Latvia
Technology mapping for the packaging supply chain - Exploration and pilot application of best practice techniques, Greg Wood, Pira International, United Kingdom

Packaging foresight, M.Sc.Carl Olsmats, Packforsk - The Swedish Packaging Research Institute, Sweden

Development of a web-based distance education program at the School of Packaging at Michigan State University, Ronald A. Iwaszkiewicz II, School of Packaging at Michigan State University, USA

Sub-session 2
Packaging and the environment

Environmental impact assessment of kerbside recycling of paper and packaging, Karli L James, Tim Grant, Sven Lundie, Kees Sonneveld Centre for Packaging, Transportation and Storage at Victoria University of Technology, Australia

Opportunities for bio-degradable packaging films in food packaging, Dr C. Rajmund Jaeger, Dr. H. Luitjes Department of Packaging Transport&Logistics Agrotechnological Research Institute, The Netherlands

Ecological advantages of Ecolean new packaging material, Mats Harbom, Per Gassne Ecolean AB, Sweden

The EU recycling of steel for packaging in perspective, Philippe Wolper, APEAL (Association Professionnelle des Producteur Europeens d'Aciers pour Emballages), Belgium

EU Packaging and Packaging Waste Directive and the enlargement process of Central and Eastern European Countries, Olivier Bobille APEAL (Association Professionnelle des Producteur Europeens d'Aciers pour Emballages), Belgium

Sub-session 3
Quality management. Certification. Marketing and market research

Installation and implementation of quality management systems including accreditation of test laboratories to the new ISO 17025, Dipl. Ing. Frank Fischer, Institute for BFSV, Germany

Normpack - a system for self-regulation, M.Sc.Ch.Ing Kristina Salmen Packforsk-Swedish Packaging Research Institute/Normpack, Sweden

E-business model for packaging supply chain, Dr Ge Chang Feng, PacknetAsia Pte Ltd, Singapore

E-bizz Øresund, Jens-Chr. Sorensen, Danish Technological Institute Denmark
Analysis of current state of labelling on foodstuffs packages in Poland, Prof. Dr Zofia Cichoń M.Sc.Eng. Małgorzata Miśniakiewicz, Cracow University of Economics, Poland

Consumer ergonomics. Handleability of consumer packages, Dr Anders Soras, The Foundation Packforsk-The Institute for Packaging and Distribution, Sweden

Knowledge management and marketing information system in the holding company producing flexible packaging, Dr Anna Diacikova, Ing. Milan Durca, Ing. Luboslava Novotna, Chemosvit, Slovakia