

CONFERENCE ANNOUNCEMENT

6th PHARMACEUTICAL TECHNOLOGY CONFERENCE & EXHIBITION

APRIL 7th, 8th & 9th 1987

UNIVERSITY OF KENT AT CANTERBURY, U.K.

This established and important international Conference will review contemporary scientific developments in the vital and expanding area of pharmaceutical technology. Directly aimed at industrial and academic scientists who are concerned with the research, development, manufacture, registration and quality assurance of medicinal products, this sixth Conference represents a timely international forum for the open and informal discussion of recent pharmaceutical technological developments.

TUESDAY, APRIL 7th

PLENARY LECTURE

DRUG TARGETING – A BIOLOGICAL PERSPECTIVE

Professor E Tomlinson, Ciba-Geigy Research Centre, Horsham, U.K.

RESEARCH PAPERS:

CONTROLLED RELEASE

SOLVENT SELECTION IN THE PREPARATION OF DRUG-LOADED DL-POLYLACTIC ACID MICROSPHERES

R. Bodmeier, J.W. McGinity, J. Gutierrez-Rocca and S. Baker, College of Pharmacy, The University of Texas, Austin, U.S.A.

EFFECT OF SODIUM CHLORIDE ON THE MECHANICAL AND OSMOTICAL PROPERTIES OF POLYDIMETHYLSILOXANE MATRICES

O. Bilbao Revoredo, R. Pirhonen, A. Urtti and P. Paronen, University of Kuopio, Finland.

EVALUATION OF THE COMPATIBILITY AND PHYSICAL PROPERTIES OF SILICONE ELASTOMER CONTAINING HYDROPHYLIC AND/OR HYDROPHOBIC ADDITIVES

F.S. Rankin and L. Aquadisch, Dow Corning Ltd., Barry, U.K.

INFLUENCE OF ENZYMATIC POLYMERIC DEGRADATION ON DRUG RELEASE FROM A POLY(DL-LACTIDE) SLAB

J.W. McGinity and S.L. Ashley, College of Pharmacy, University of Texas, Austin, U.S.A.

DEVELOPMENT OF A NEW CONTROLLED RELEASE METOPROLOL PRODUCT

G. Ragnarsson, A. Sandberg, U.E. Jonsson and S Sjogren, AB Hassle, Molndal, Sweden.

IMPORTANCE OF DRUG TYPE, TABLET SHAPE AND FORMULATION ON RELEASE FROM HYDROXYPROPYLMETHYLCELLULOSE MATRIX TABLETS

J.L. Ford, M.H. Rubinstein, F. McCaul, J.E. Hogan and P.J. Edgar, School of Pharmacy, Liverpool Polytechnic and Colorcon Ltd., Orpington, U.K.

GASTROINTESTINAL TRANSIT OF A SINGLE-UNIT SUSTAINED RELEASE TABLET AND CONCOMITANT ABSORPTION OF VERAPAMIL

M. Marvola, H. Aito, P. Pohto, A. Kannikoski, S. Nykanen and P. Kokkonen, Orion Pharmaceuticals, Espoo and School of Pharmacy, University of Helsinki and Hospital of Helsinki Deaconess Institute, Finland.

DRUG RELEASE FROM COADSORBATES OF NONIONIC SURFACTANTS WITH PARABENES ON POROUS SILICA SUPPORTS

R. Daniels and H. Rupprecht, University of Regensburg, W. Germany.

BIODEGRADABLE IMPLANTS CONTAINING GENTAMYCIN: DRUG RELEASE AND PHARMACOKINETICS

A.A. Firsov, A.D. Nazarov and I.P. Fomina, National Research Institute of Antibiotics, Moscow, U.S.S.R.

GRANULATION**EFFECT OF IMPELLOR AND CHOPPER DESIGN ON GRANULATION IN A HIGH SPEED MIXER**

P. Holm, Royal Danish School of Pharmacy, Copenhagen, Denmark.

A FACTORIAL APPROACH TO PROCESS VARIABLES OF EXTRUSION SPHERONISATION OF WET POWDER MASSES

M. Chariot, J. Frances, G.A. Lewis, D. Mathieu, R. Phan, T. Luu and H.N.E. Stevens, L.E.R.S., Paris and University of Aix-en-Provence, France.

TABLET LUBRICATION**THE EFFECT OF MAGNESIUM STEARATE ADMIXING IN DIFFERENT TYPES OF LABORATORY AND INDUSTRIAL MIXERS ON TABLET CRUSHING STRENGTH**

G.K. Bolhuis, S. de Jong, C.F. Lerk and H. Dettmers, University of Groningen and Pharbita B.V., Zaandam, The Netherlands.

A STUDY OF THE FORMATION OF MAGNESIUM STEARATE FILM ON SODIUM CHLORIDE USING ENERGY DISPERSIVE X-RAY ANALYSIS

M.S.H. Hussain, P. York and P. Timmins, University of Bradford and E.R. Squibb & Sons Ltd., Moreton, U.K.

CAPSULE TECHNOLOGY

PHARMACEUTICAL PROPERTIES AND BEHAVIOUR OF A NEW INJECTION MOULDED STARCH CAPSULE

H. Augart, A. Borgmann and R.F.T. Stepto, Goedecke AG, Freiburg, W. Germany and Capsugel AG, Basel, Switzerland.

PREDICTING CAPSULE FILL WEIGHT VARIATION FROM BULK DENSITY MEASUREMENTS

D.J. Hill and S.R. Wicks, Pfizer Central Research, Sandwich, U.K.

RHEOLOGICAL INFLUENCES ON MIGRATION THROUGH GLYCEROGELATIN GELS

N.A. Armstrong, T. Gebre-Mariam, K.C. James and P. Kearney, Welsh School of Pharmacy, Cardiff, U.K.

PARTICLE CHARACTERISATION

MEASUREMENT OF THE SURFACE AREA CHANGES DURING THE DISSOLUTION OF POORLY SOLUBLE DRUGS USING A WIDE ANGLE PHOTSEDIMENTOMETER

M.H. Rubinstein and V. Bansal, School of Pharmacy, Liverpool Polytechnic, U.K.

DEVELOPMENT OF A LABORATORY TEST METHOD TO PREDICT MILLING PERFORMANCE FOR ORGANIC DRUG SUBSTANCES

P. Luner and E.F.Fiese, University of Michigan and Pfizer Central Research, U.S.A.

WEDNESDAY, April 8th

PLENARY LECTURE

IN-VIVO EVALUATION OF DOSAGE FORMS

Dr. C. G. Wilson, Department of Physiology & Pharmacology, University of Nottingham, U.K.

RESEARCH PAPERS:

CONTROLLED RELEASE

DRUG DELIVERY BY ION-EXCHANGE: ESTER PRO-DRUGS OF PROPRANOLOL

W.J. Irwin, K.A. Belaid and H.O. Alpar, Pharmaceuticals Sciences Institute, Aston University, Birmingham, U.K.

A MATHEMATICAL MODEL FOR DRUG RELEASE FROM O/W EMULSIONS: APPLICATION TO CONTROLLED RELEASE MORPHINE EMULSIONS

D. Friedman and S. Benita, School of Pharmacy, The Hebrew University of Jerusalem, Israel.

THE EFFECT OF INDOMETHACIN MICROCAPSULES ON INTESTINAL ULCERATION IN THE RAT

J.E. Hilton and M.P. Summers, The School of Pharmacy, University of London and Napp Research Centre Ltd., Cambridge, U.K.

STUDY OF APPARENT DIFFUSION COEFFICIENT FOR ZERO-ORDER RELEASE KINETICS OF SULPHAMETHOXAZOLE IN GELATIN-ACACIA MICROCAPSULES

P.R. Pal and T.K. Pal, Department of Pharmacy, Jadavpur University, Calcutta, India.

DRUG RELEASE**THE USE OF THERMAL ANALYSIS IN THE STUDY OF SOLID DISPERSIONS**

J.L. Ford, School of Pharmacy, Liverpool Polytechnic, U.K.

CHEMISORBATES OF DRUGS ON SILICA: A NEW APPROACH TO DRUG RELEASE MODIFICATION

C. Eckert-Lill, N. Lill, W. Endres and H. Rupprecht, University of Regensburg, W. Germany.

INFLUENCE OF DRUG LOADING AND GEL STRUCTURE ON IN-VITRO RELEASE KINETICS FROM PHOTOPOLYMERIZED GELS

E.O. Akala and J.H. Collett, Department of Pharmacy, University of Manchester, U.K.

INFLUENCE OF CRYSTALLIZATION CONDITIONS ON THE PHYSICAL PROPERTIES AND DISSOLUTION RATE OF PARACETAMOL CRYSTALS

D.J.W. Grant and A.H-L. Chow, Faculty of Pharmacy, University of Toronto, Canada.

INFLUENCE OF CHEMICAL STRUCTURE ON RHEOLOGICAL PROPERTIES OF ACRYLICS

M.Dittgen and E. Schlauch, University of Greifswald, D.D.R.

TABLET COMPRESSION**COMPACTIBILITY STUDIES ON SPRAY DRIED LACTOSE**

H. Vromans, G.K. Bolhuis and C.F. Lerk, University of Groningen and DMV, Veghel, The Netherlands.

STUDY OF DIFFERENT CRYSTALLINE FORMS OF MANNITOL: COMPARATIVE BEHAVIOUR UNDER COMPRESSION

B. Debord, C. Lefebvre, A.M. Guyot-Hermann, J. Hubert, R. Bouche and J.C. Guyot, Faculty of Pharmacy, Lille, France and University of Louvain, Belgium.

ELUCIDATION OF THE MECHANICAL BEHAVIOUR OF LABETALOL HYDROCHLORIDE TABLETS USING HESTAND'S INDICES OF TABLETING PERFORMANCE AND THE IMPACT FRACTURE WEAR TEST

W. Duncan-Hewitt and D.J.W. Grant, Faculty of Pharmacy, University of Toronto, Canada.

THE EFFECT OF THE SPECIFIC SURFACE AREA OF HEAVY MAGNESIUM CARBONATE ON ITS TABLETING PROPERTIES

T-M Cham, School of Pharmacy, Kaohsiung Medical College, Taiwan, R.O.C.

THE EFFECT OF WATER CONTENT ON TABLET POROSITY

N.A. Armstrong and A.N. Patel, Welsh School of Pharmacy, Cardiff, U.K.

FORMULATION EXPERIMENTAL DESIGN USING AN INSTRUMENTED TABLET MACHINE

P. Billardon, P. Ozil and J.C. Guyot, Faculty of Pharmacy, Lille and Polytechnic of Grenoble, France.

SUPPOSITORIES

RELEASE CHARACTERISTICS AND BIOAVAILABILITY OF NORFLOXACIN FROM SUPPOSITORY BASES

E.Z. El-Din, F.M. Sakr and F. Hasheim, Faculty of Pharmacy, Mansoura University, Egypt.

THURSDAY, APRIL 9th

PLENARY LECTURE

FUNDAMENTALS IN PHARMACEUTICS

Professor R. Hüttenrauch, Jena, D.D.R.

SELECTED REVIEWS IN PHARMACEUTICAL TECHNOLOGY

TABLET DISINTEGRATION UPDATE: THE DYNAMIC APPROACH

C. Caramella and P. Colombo, University of Pavia, Italy.

MICROWAVE VACUUM DRYING OF PHARMACEUTICALS

M.S. Waldron, T.K. Fielder Ltd., Eastleigh, U.K.

CONTEMPORARY TECHNIQUES FOR THE PRODUCTION OF ULTRA-PURE WATER IN THE PHARMACEUTICAL INDUSTRY

K.P. Shrimpton, Elga Ltd., High Wycombe, U.K.

CONSIDERATIONS FOR THE IMPLEMENTATION OF A LABORATORY INFORMATION MANAGEMENT SYSTEM WITHIN THE PHARMACEUTICAL INDUSTRY

S.A. Cowlshaw and N.C. Horslen, Perkin-Elmer Ltd., Beaconsfield, U.K.

RESEARCH PAPERS:

QUALITY CONTROL

THE USE OF THEORETICAL COMPUTATIONS TO DETERMINE THE FEASIBILITY OF MULTICOMPONENT SPECTROPHOTOMETRIC PROCEDURES IN QUALITY CONTROL

W.M. Henderson, W.H. Shelver and G.W. Wettstein, North Dakota State University, Fargo, U.S.A.

EXPERIMENTAL DESIGN IN DISSOLUTION TESTING

G.A. Lewis and H.N.E. Stevens, L.E.R.S., Paris, France.

FACTORS AFFECTING THE ACCURATE BISECTING OF TABLETS

J.I. Wells, H. Bhullar and T.J. Lewis, Pfizer Central Research, Sandwich, U.K.

VALIDATION OF THE CONTENT UNIFORMITY TESTING OF USP XXI (1985) FOR TABLETS CONTAINING POTENT DRUGS

E. Sallam, Faculty of Pharmacy, University of Jordan, Amman, Jordan.

STABILITY**THE STABILIZATION OF LOCAL ANAESTHETICS IN LIPOSOMES**

M.J. Habib and J.A. Rogers, University of Alberta, Edmonton, Canada.

DETERMINATION OF DIELECTRIC PROPERTIES AND ADSORPTION ISOTHERMS OF WATER ADSORBED ON TO FRACTOSIL 5000

Vo Van Nhuan, M. Buchmann, P. Ruelle, C. Rey-Mermet, Ho Nam-Tran and U.W. Kesselring, University of Lausanne, Switzerland.

STRUCTURAL STABILITY OF OPHTHALMIC OINTMENTS CONTAINING SOFT PARAFFIN

D.De Rudder, J.P. Remon and P. Van Aerde, State University of Gent and Alcon-Couvreur, Puurs, Belgium.

pH MEASUREMENTS OF SUSPENSIONS

G. Lee, D. Dick, E.M. Vasquez and K. Werner, College of Pharmacy, University of Illinois at Chicago, U.S.A.

INTERACTION OF PHENYLBUTAZONE WITH ISOPROPYL MYRISTATE IN PHARMACEUTICAL SEMISOLID PREPARATIONS

E. Sallam, H. Saleem and R. Zaru, University of Jordan, Amman, Jordan.

DIRECT COMPRESSION**EFFECT OF ADDITION OF WATER ON THE PROPERTIES OF TWO COMMERCIALY AVAILABLE MICROCRYSTALLINE CELLULOSES**

J.N. Staniforth, J.P. Hart, P.W.S. Heng and A.R. Baichwal, University of Bath, Edward Mendell (Europe) Ltd., U.K. and National University of Singapore.

COMPARATIVE TABLETING PROPERTIES OF SIXTEEN MICROCRYSTALLINE CELLULOSES

E.Doelker, D. Mordier, H. Iten and P. Humbert-Droz, University of Geneva and Labatec-Pharma S.A., Switzerland.

THE DEVELOPMENT OF A DIRECTLY COMPRESSIBLE SUSTAINED-RELEASE EXCIPIENT

M. Chatrath, P.J. Lockwood and J.N. Staniforth, University of Bath, U.K.

A CONTINUOUS PROCESS TO MODIFY THE CRYSTAL HABIT AND ENHANCE THE PRODUCT CHARACTERISTICS OF SUCROSE

K. Sinclair, Tate & Lyle Sugars, London, U.K.

TABLET COATING

THE POTENTIAL USE OF COMPRESSION COATING IN THE BLINDING OF CLINICAL TRIAL SUPPLIES

P.J. Hadfield, D.S. Holmes and R.J. Yarwood, Wyeth Research (UK) Ltd., Taplow,

POSTERS

DISSOLUTION CHARACTERISTICS OF PARACETAMOL AND CHLOROQUINE PHOSPHATE FROM COMMERCIAL TABLETS IN THE PRESENCE OF ANTACIDS

M.A. Iwuagwu and K.S. Aloko, Faculty of Pharmacy, University of Benin, Nigeria.

IN VITRO AND IN VIVO RELEASE OF NITROGLYCERIN FROM AN OINTMENT, A GEL, A HYDROSOLUBLE POLYMERIC FILM AND A TRANSDERMAL THERAPEUTIC SYSTEM

S.E. Leucuta, V. Filipas, M. Aldea, L-V. Simiti and R. Vlaicu, Institute of Medicine and Pharmacy, Cluj-Napoca, Rumania.

AGING OF TABLETS PREPARED BY DIRECT COMPRESSION OF BASES WITH DIFFERENT MOISTURE CONTENT

A.M. Molokhia, H.I. Al-Shora and A.A. Hammad, King Saud University, Riyadh, Saudi Arabia.

THE EFFECT OF LOW MOLECULAR WEIGHT POLYMERIC FRACTIONS ON THE DRUG RELEASE FROM POLYMERIC DRUG DELIVERY SYSTEMS

R. Bodmeier, J.W. McGinity, J. Gutierrez-Rocca and S. Baker, University of Texas at Austin, U.S.A.

SELECTION OF THE VEHICLE FOR TOPICAL ADMINISTRATION OF NICARDIPINE HYDROCHLORIDE

M. Mohar, A. Kramaric, Z. Kopitar and B. Kofler, LEK Pharmaceutical Co., Ljubljana, Yugoslavia.

DISSOLUTION CHARACTERISTICS OF BENZOIC ACID AND SALICYLIC ACID MIXTURES IN REACTIVE MEDIA

Z. Ramtoola and O.I. Corrigan, School of Pharmacy, University of Dublin, Ireland.

DISSOLUTION OF CHLORPROPAMIDE TABLETS IN CO-SOLVENT SYSTEMS

A. Dodge and P.L. Gould, Cyanamid of Great Britain Ltd., Gosport, U.K.

PROBLEM ANALYSIS IN CHLORPROPAMIDE TABLET DEVELOPMENT

A.C. Potts, M.J. Rowley and A. Dodge, Cyanamid of Great Britain Ltd., Gosport, U.K.

IONTOPHORETIC TRANSPORT OF MODEL COMPOUNDS FROM A GEL MATRIX ACROSS A CELLOPHANE MEMBRANE

Y.B. Bannon, J. Corish and O.I. Corrigan, Trinity College, University of Dublin, Ireland.

IMPROVEMENT OF DISSOLUTION AND ABSORPTION CHARACTERISTICS OF IBUPROXAM BY CYCLODEXTRIN COMPLEXATION

J. Milovac, Z. Kopitar, J. Urbancic-Smerkoltj and J. Zmitek, LEK Pharmaceutical Co., Ljubljana, Yugoslavia.

A NON-ISOTHERMAL STABILITY METHOD USING A PROGRAMMABLE TEMPERATURE RISE

G. Becket, Department of Pharmacy, National University of Singapore.

THE USE OF XANTHAN GUM IN THE FORMULATION OF HYDROPHILIC MATRICES

H.M. Ingani and A.J. Mões, Faculty of Medicine & Pharmacy, Free University of Brussels, Belgium.

EFFECT OF DRUG AGGLOMERATES UPON THE KINETICS OF MIXING OF LOW DOSAGE COHESIVE POWDER MIXTURES

L.H. Cartilier and A.J. Mões, Faculty of Medicine & Pharmacy, Free University of Brussels, Belgium.

DISSOLUTION OF INDOMETHACIN FROM COEVAPORATES WITH EUDRAGIT RS OR RL

M.P. Oth and A.J. Mões, Faculty of Medicine & Pharmacy, Free University of Brussels, Belgium.

EVALUATION OF PTFE COATED AND UNCOATED RUBBER CLOSURES FOR AQUEOUS PARENTERAL FORMULATIONS CONTAINING COSOLVENTS

T. Cutt, E. Davison and P.E. Last, Pfizer Central Research, Sandwich, U.K.

PROCESS DEVELOPMENT OF A PARENTERAL EMULSION FORMULATION

L. Staines, Cyanamid of Great Britain Ltd., Gosport, U.K.

EXTRUSION SPHERONISATION OF WET POWDER MASSES: SOME TECHNOLOGICAL FACTORS

R. Bodmeier, M. Chariot, J. Frances, J. McGinity and H.N.E. Stevens, L.E.R.S., Paris, France and Drug Dynamics Institute, University of Texas at Austin, U.S.A.

MIGRATION OF A DRUG INTO TABLET FILM COATINGS

G.A. Lewis, M.J. Shott and H.N.E. Stevens, L.E.R.S., Paris, France.

THE USE OF ZETA POTENTIAL TO STUDY THE AGING PROCESS OF OIL IN WATER EMULSIONS

D. Rambhau, A.K. Dorle, B.R. Reddy and V. Kishan, Nagpur University and Kakatiya University, Warangal, India.

STUDY OF ROSIN AS A MICROENCAPSULATING MATERIAL

Y.V. Pathak, N. Patel and N. Krishnamurthy, College of Pharmaceutical Sciences, Manipal, India.

FORMULATION OF CONTROLLED RELEASE TABLETS USING HYDROPHOBIC FILLERS

Y.V. Pathak, College of Pharmaceutical Sciences, Manipal, India.

THE EFFECT OF MOISTURE SORPTION AND DESORPTION ON FRUSEMIDE TABLET PROPERTIES

J. Akbuga and A. Gursoy, Faculty of Pharmacy, University of Marmara, Nisantasi/Istanbul, Turkey.

CONTROLLED RELEASE INDOMETHACIN MICROCAPSULES

N.N. Salib, H.H.S. Hagar and Z.A. Elgholmy, Faculty of Pharmacy, University of Alexandria, Egypt.

APPARENT RELAXATION CONSTANT OF A TABLET

L. Casahoursat, G. Lemagnen, D. Larrouture and A. Etienne, University of Bordeaux II and Pluripharm Laboratories, Bordeaux, France

BROMHEXINE HYDROCHLORIDE ADSORPTION BY SOME SOLID EXCIPIENTS USED IN THE FORMULATION OF TABLETS

M.A. Qtaitat, M. Zughul and A.A. Badwan, University of Jordan, Amman and The Pharmaceutical Manufacturing Co., Naor, Jordan.

DISSOLUTION CHARACTERISTICS OF INTERACTIVE POWDER MIXTURES.

E. Sallam, H. Ibrahim, M. Takeiddin, M. Abushamat and T. Baghal, Faculty of Pharmacy, University of Jordan, Amman, Jordan,

DEVELOPMENT OF ANTIBIOTIC HYDROGELS TECHNOLOGY USING A DESIGN EXPERIMENT TECHNIQUE

E.Z. Kagan, L.K. Grakovskaya and W.M. Fishman, National Research Institute of Antibiotics, Moscow, U.S.S.R.

INVESTIGATION OF SOME ANTIACNE OINTMENTS WITH NEOMYCIN SULPHATE

G. Suciu, L. Ilea, I. Ban, E. Fagarasan and N. Maier, Institute of Medicine & Pharmacy, Cluj-Napoca, Rumania.

ANTISEBORRHEIC DERMATOLOGIC PREPARATIONS BASED ON VEGETABLE EXTRACTS

G. Suciu, V. Hodisan, I. Ban, R. Ciupe and N. Maier, Institute of Medicine & Pharmacy, Cluj-Napoca, Rumania.

For further details about the Conference and a registration form please contact:

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