European Cooperation in the field of Scientific and Technical Research - COST -

Secretariat

Brussels, 9 April 2002

COST 216/02 ADD 1

INFORMATION NOTE

Subject : Ad Hoc Group on Biomaterials
- Nomination of its members

Delegations are provided with the Curriculum vitae of the members of the Ad-hoc Group on Biomaterials, as requested during the 146th Meeting of the Senior Officials Committee:

Name of the candidate	Country/TC.	Annex
Luc P. BALANT	Switzerland/TC Medicine & Health	1
Rolando BARBUCCI	Italy	2
Søren Balling ENGELSEN	Denmark/TC Environment	3
Etienne GOOVAERTS	Belgium/TC Physics	4
Ferenc JAKAB	Hungary	5
Issa KATIME AMASHTA	Spain	6
Gerard van KOTEN	Netherlands/TC Chemistry	7
Jean-Marc LAVAL	France/Nano-STAG	8
Knut RUYTER	Norway/TC Social Sciences	9
Kevin SHAKESHEFF	United Kingdom	10
Antti YLI-URPO	Finland	11
Jos WEBER	Switzerland/TC Materials, who will serve as the Chair of the Group	12

Luc P. Balant, PhD in Chemistry, was born in 1941. He is presently Professor of Pharmacotherapy at the Department of Psychiatry, Faculty of Medicine, University of Geneva. He graduated in chemistry from the University of Basle and went on to obtain his degree in chemical engineering and his doctorate at the Institute of Clinical Biochemistry of the Faculty of Medicine of Geneva. His doctoral thesis dealt with insulin and insulin resistance in rodents.

For ten years, Luc Balant was responsible for the Clinical Pharmacokinetics Laboratory of the Department of Medicine in Geneva during which time he took sabbatical leaves at the Schools of Pharmacy, University of Florida in Gainesville and University of California at San Francisco. During this period, he was promoted to Privat Docent (Senior Lecturer) in pharmacokinetics at the Faculty of Medicine of Geneva. The laboratory conducted studies in healthy volunteers and patients for new hypoglycaemic sulfonylureas, beta-blocking agents and various other classes of medications.

Luc Balant worked for seven years in the pharmaceutical industry (Novartis Consumerhealth), first as Head of Clinical Pharmacology at headquarters in Switzerland, and then as Director of the Scientific Department in the Italian subsidiary. During this period he was promoted "Reader" in pharmacotherapy at the Department of Medicine, and later at the Department of Psychiatry of Geneva.

Since 1987, he has been Head of the Clinical Research Unit in the Department of Psychiatry of Geneva and promoted Professor with Tenure in Pharmacotherapy. His teaching activities cover pre- and postgraduate student courses, essentially in psychiatry and pharmacy. He has also been actively involved in the organisation of seminars and workshops in pharmacokinetics. The Clinical Research Unit was designated in 1998 as a "WHO Collaborative Centre for Research and Teaching in Psychiatry". His present research activities are centred on the application of statistical and pharmacokinetic methods to analyse therapeutic drug monitoring data in the context of the population approach. He has written or co-authored more than 350 original publications, chapters in books and abstracts.

Since 2000, Luc Balant is also Deputy Director for Scientific Affairs of the Department of Psychiatry, University Hospitals of Geneva.

Luc Balant has sat on the boards of several scientific societies and was the Swiss representative in the European Concerted Action COST B1 (Measuring and Managing Variability in response, Concentration and Doses of New Medications) and is now chairman of Action COST B15 (Modelling during Drug Development). He is also Chairman of the COST Technical Committee on Medicine and Health. He is one of the permanent organisers of the European Congress of Biopharmaceutics and Pharmacokinetics. He has been and is a member of the organising or advisory committees of numerous international meetings in psychiatry, clinical pharmacology, biopharmaceutics and pharmacokinetics.

Rolando BARBUCCI

Born in Florence on 9 January 1942

Academic qualifications:

Graduated in Chemistry at the University of Florence in 1965.

Professional experience:

1967- 1969	Lecturer at the University of Cagliari, Sardegna.
1970- 1976	Lecturer and Assistant at the University of Florence.
1976- 1980	Full Professor at University of Naples. Full Professor at University of Siena (Faculty of Farmacy).
1990- 1996	Head of Department of Chemistry, University of Siena.
1991- 1997	President of the Interdivisional Group "Biomaterials" (G.I.B.) of the Italian Chemical Society.
1992-	Director of the Interuniversity Research Center for Advanced Medical Systems (C.R.I.S.M.A.).
1996-	Head of Department of Chemical and Biosystems Sciences and Technologies, University of Siena.

Member of: Italian Chemical Society; Italian Society of Biomaterials; Thermodynamic of Complexes Group; the Royal Society Chemistry (UK); Society for Biomaterials (U.S.A); European Society of Biomaterials; New York Academy of Science; American Association for the Advancement of Science.

Consultant of The Ministry of University and Scientific and Technologic Research for the National Plans concerning Materials.

Technical and scientific Consultant for the management of the "Special Fund for Applied Research" of IMI.

Member of the Commission of Study of feasibility of the Progetto Finalizzato Special Materials for Advanced Technologies II of the National Council of Research.

Director of the Subproject Biomaterials of the National Council of Research in the ambit of the progetto Finalizzato Special Materials For Advanced Tecnologies II.

Member of the Editorial Board of Biomaterials Journal

Organizer of the Summer School on Stability Constants (May 1974- Florence).

Director of the International School of Calorimetry (June 1977- Naples); Congress on Thermodynamics of Complexes (June 1983 - Siena).

Organizer of international meetings: Biomaterials in Blood therapy- european research Coordination of Development, Testing and Application (March 1985); Workshop on Plasma Polymerization (October 1990); Siena- Kyoto Symposium (June 1991; July 1995); IV Macromolecules Metal Complexes (October 1991).

Director and Organizer of the European Advanced Course on Biomaterials (sponsored by EEC) held every two years in Siena (April 1987; April 1989, April 1991, April 1993, April 1996, March 1998).

Promoter and Director of the Interuniversity Research Center for advanced Medical Systems (C.R.I.S.M.A.), become in 1992 Interuniversity Centre with the partecipation of the Universities of Siena, Brescia, Bologna, Milano and Bari.

Author of more than 250 publications and 5 patents.

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Chimiche dei Biosistemi
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Søren Balling Engelsen

Associate Professor (Spectroscopy & Molecular Modeling)

Born 1961 in Copenhagen. Ph.D. degree from The Technical University of Denmark in 1991. Post doctoral position at Institut National de la Recherche Agronomique, Nantes, France, from 1992. Joined the Food Technology group at The Royal Veterinary and Agricultural University in 1995.

PROFILE: My scientific interests includes the following four research areas: (**1**) development of PC and workstation based molecular mechanics software including the development of a structure generator for polysaccharides and complex carbohydrates. (**2**) development of molecular mechanics force fields for application to carbohydrates and lipids. (**3**) application of molecular mechanics and molecular dynamics methods for modeling of carbohydrate data arriving from vibrational spectroscopy, NMR and X-ray experiments and (**4**) quantitative vibrational spectroscopy (NIR, IR and Raman) of food components using multivariate algorithms.

FORCE FIELD DEVELOPMENT: With a background in inorganic chemistry and vibrational spectroscopy I was early involved in the development of a molecular mechanics force field designed for structural modeling of carbohydrates and lipids. The method used was the Consistent Force Field (CFF) which is an iterative optimization process (Levenberg-Marquardt) where a set of potential energy functions are fitted to be able to reproduce experimental data with well-established structure relations. Besides structural parameters such as internal coordinates arriving from **electron and neutron diffraction**, **molecular vibrations** are a most important component of such optimizations. Vibrational frequencies measured by **infrared**, **Raman** or **inelastic neutron scattering** can efficiently be related to the structural model in the harmonic approximation and provides unique information about the interatomic forces important for the development of a reliable dynamical force field.

MOLECULAR MODELING: To investigate carbohydrate structure and to evaluate the extrapolative power of different carbohydrate force fields we have conducted a series of comparative tests on time-averaged experimental data such as **coupling constants** and **NOESY volumes** arriving from NMR experiments in solution. The methods used includes statistical sampling of the available conformational space in vacuum (lactoside), analysis of anisotropy in a glucolipid crystal (HECAMEG) as well as molecular dynamics simulations in explicit water (sucrose).

POLYS: The usual high degree of flexibility of carbohydrates has made it difficult to orient them with sufficient order to create single crystal wherefore little experimental information is available on the structures of polysaccharides and complex carbohydrates. In order to cope with the paucity of three dimensional description of polysaccharides and complex carbohydrates, we have developed a molecular builder for carbohydrates (POLYS) which can account for the complexity and diversity of most natural occurring carbohydrates along with the unique topological features arising from multiple branching. The POLYS builder is programmed as a compiler of primary carbohydrate structures. As output it generates tertiary structures in the form of cartesian coordinates in formats used by most molecular mechanics programs and packages. When we have canonized an appropriate force field into this program we can readily get information on the structural details of polysaccharides and complex carbohydrates. In a first application we have used the POLYS program to generate 3D structures of pectins from proposed primary structures.

MULTIVARIATE QUANTITATIVE SPECTROSCOPY:
SPECARB: A Database of Raman Spectra of
Carbohydratesspecarb/specarb.htmlspecarb/specarb.html

References

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- *The mean hydration of carbohydrates as studied by normalized two-dimensional radial pair distributions*, C. Andersson and S.B. Engelsen, *Journal of Molecular Graphics and Modelling* **17**, 101-105, 131-133 (1999).
- *Can spectroscopy in combination with chemometrics replace minks in digestibility tests?*, P.L. Dahl, B.M. Christensen, L. Munck, E.P. Larsen and S.B. Engelsen, *Journal of the Science of Food and Agriculture* **80**, 365-374 (2000).
- *Prediction of Sensory Texture of Cooked Potatoes using Uniaxial Compression, Near Infrared Spectroscopy and Low Field 1H NMR Spectroscopy*, A.K. Thybo, I.E. Bechmann, M. Martens and S.B. Engelsen, *Lebensmittel Wissenschaft und Technologie (Food Science and Technology)* **33**, 103-111 (2000).
- *Warmed-over flavour in porcine meat - a combined spectroscopic, sensory and chemometric study*, J. Brøndum, D.V. Byrne, L.S. Bak, G. Bertelsen and S.B. Engelsen, *Meat Science* **54**, 83-95 (2000).
- *Starch molecular structure and phosphylation investigated by a combined chromatographic and chemometric approach*, A. Blennow, S.B. Engelsen, L. Munck and B.L. Møller, *Carbohydrate Polymers* **41**, 163-174 (2000).
- *Application of chemometrics to low-field 1H-NMR relaxation data of intact fish flesh*, S.M. Jepsen, H.T. Pedersen and S.B. Engelsen, *Journal of the Science of Food and Agriculture* **79**, 1793-1802 (1999).
- *Comparative Chemometric Analysis of Transverse Low-field 1H NMR Relaxation Data*, I.E. Bechmann, H.T. Pedersen, L. Nørgaard and S.B. Engelsen In *Advances in Magnetic Resonance in Food Science* **(Eds. P.S. Belton, B.P. Hills and G.A. Webb)**, 217-225 (1999).
- *A Comparison and chemometric analysis of several molecular mechanics force fields and parameter sets applied to carbohydrates*, S. Pérez, A. Imberty, S.B. Engelsen, J. Gruza, K. Mazeau, J. Jiménez-Barbero, A. Poveda, J.F. Espinoza, B.P. van Eijck, G. Johnson, A.D. French, M.L.C.E. Kouwijzer, P.D.J. Grootenhuis, A. Bernardi, L. Raimondi, H. Senderowitz, V. Durier, G. Vergoten and K. Rasmussen, *Carbohydrate Research* **314**, 141-155 (1998).
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- *Chemometrics in Food Science - a demonstration of the feasibility of a highly exploratory, inductive evaluation strategy of fundamental scientific significance*, L. Munck, L. Nørgaard, S.B. Engelsen, R. Bro and C.A. Andersson, *Chemometrics and Intelligent Laboratory Systems* **44**, 31-60 (1998).
- *New approaches to rapid spectroscopic evaluation of properties in pectic polymers*, S.B. Engelsen, E. Mikkelsen and L. Munck, *Progr. Colloid Polym. Sci.* **108**, 166-174 (1998).

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- *Internal Motions and Hydration of Sucrose in a Diluted Water Solution*, S.B. Engelsen and S. Pérez, *Journal of Molecular Graphics and Modelling***15**, 122-131 (1997). *(Virtual Poster - MGMS EC-1)*
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- *Explorative spectrometric evaluations of frying oil deterioration*, S.B. Engelsen, *JAOCS* **14**, 1495-1508 (1997).
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- *Comparative Vibrational Spectroscopy for Determination of Quality Parameters in Amidated Pectins as Evaluated by Chemometrics*, S.B. Engelsen and L. Nørgaard, *Carbohydrate Polymers* **30**, 9-24 (1996).
- *Quantitative Raman spectroscopy. Prediction of the degree of esterification in pectins*, S.B. Engelsen and L. Nørgaard, *Progress in Biotechnology*, **14**, Pectins and Pectinases (Eds.) J. Visser and A.G.J. Voragen, Proceedings of an International Symposium, Wageningen, The Netherlands, Elsevier (1996), pp. 541-548.
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- *The Consistent Force Field. 4. An optimized set of potential energy functions for aliphatic and alicyclic ethers and anomeric carbon atoms*, J. Fabricius, S.B. Engelsen and K. Rasmussen, *New J. Chem.* **19**, 1123-1137 (1995).
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- *Crystal structure and molecular mechanics analysis of methyl 6-O-(N-heptylcarbamoyl)-a-D-glucopyranoside (HECAMEG)*, S.B. Engelsen, S. Pérez, L. Toupet, and D. Plusquellec, *Carbohydr. Res.* **264**, 161-171 (1994).

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- (a) *The Consistent Force Field: Development of Potential Energy Functions for Conformational Analysis*, K. Rasmussen, S.B. Engelsen, J. Fabricius and B. Rasmussen, *NATO ASI Series C* **406**, Kluwer Academic Publishers, 381-419 (1993). (b) *Experimental and Computational Projects on Molecular Spectroscopy*, S.B. Engelsen, J. Fabricius, M. Peterson, P.J.A. Ribiero-Claro and B. Whitaker, *NATO ASI Series C* **406**, Kluwer Academic Publishers, 421-429 (1993).
- *Simulations of the Aqueous Solvation of Trilaurin*, S.B. Engelsen, J.W. Brady, and J.W. Sherbon, *J. Agric. Food Chem.* **42**, 2099-2107 (1994).
- *Conformations of disaccharides by empirical force field calculations. Part V: Conformational maps of b-gentiobiose in an optimized consistent force field*, S.B. Engelsen and K. Rasmussen, *Int. J. Biol. Macromol.* **15**, 56-62 (1993).

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ANNEX IV

CURRICULUM VITAE -- ETIENNE GOOVAERTS

Personal data

Born in : Mortsel

Date of birth: 9 November 1954

Professional address: Department of Physics
University of Antwerp - UIA
Universiteitsplein 1
B-2610 Wilrijk
Tel: +31-(0)3-820.2446 Fax: +31-(0)3-820.2479 or 2245
E-mail: Etienne.Goovaerts@uia.ua.ac.be

Training

- Master in Physics ('Great Distinction'), UIA, July 1976
  Dissertation: *E.P.R.-investigation of a Pb^{+}-(interstitial Cl^{-}) complex in Pb^{++}-doped alkali halides* (supervisor: Prof. Dr. D. Schoemaker)
- Doctor in Physics ('Greatest Distinction'), UIA 1981
  Dissertation: *Inelastic light scattering and electron spin resonance of radiation defects in alkali halides* (supervisor: Prof. Dr. D. Schoemaker)
- Aggregation for Higher Education in Sciences, UIA 1993
  Public course: *Magnons*
  Thesis: *Relaxation of Frenkel-type rotational en vibrational excitons in diatomic molecular crystals*
  Plenary lecture on: *Photonics*

Professional carreer and activities

- From 1 Januari 1977 to 31 December 1978: Research assistant with a scholarship of the Institute for *Scientific Research in Industry and Agriculture* (IWONL), working in the group of *Experimental Solid State and Laser Physics* (EVSL-group), at the department of Physics of the University of Antwerp (UIA).
- From 1 Januari 1979 to 30 September 1986: Research Assistant of the *Inter-university Institute of Nuclear Sciences* (IIKW), in the EVSL-group, UIA.
- Starting from 1 October 1986: Senior Research Associate of the Belgian *National Fund for Scientific Research*, working in the EVSL-group, UIA.
- Consecutively, promoted to Senior Research Scientist (from 1 October 1994) and to Research Director (1 October 1996) of the National Fund for Scientific Research.
- On leave from August to October 1989 at IMEC, working in the group *of Compound Semiconductor Epitaxy* (CSE) headed by Prof. Dr. G. Borghs.

- In charge of the optional course on *Quantum Electronics and Optics* since the academic year 1991-1992. In the renewed curriculum of Physics, since the academic year 1994-1995, courses on *Solid State Physics I* (30 hours in the 3rd grade), *Photonics* (30 hours in the 4th grade, major optional course) and *Optical spectroscopy of semiconductor structures* (15 hours in the 4th grade, optional), and contributor to the *Project-oriented Practical Course* (in the 3rd grade). Member of the programming committee and contributions to the doctoral courses 'Research Topics in Materials Science' at the University of Antwerp since 1994. Starting from the academic year 2000-2001, I am in charge of the courses on *Group theoretical methods* (30 hours in the 3rd grade), *Photonics* (30 hours in the 4th grade, major optional course) and *Magnetic Resonance* (30 hours in the 4th grade, optional), and contributions to the *Project-oriented Practical Course* (in the 3rd grade).
- In charge of two group projects of the National Fund for Scientific Research (FWO: Fonds voor Wetenschappelijk onderzoek) on high-frequency and pulsed Electron Paramagnetic Resonance (EPR) and on Nonlinear Optics.
  Active in multidisciplinary research in collaboration (i) with the Compound Semiconductor Epitaxy group at the Inter-University Micro-Electronics Center (IMEC) in Leuven, Belgium, (ii) with groups from the European HCM-network on Molecular Third-Order Nonlinear Optical Materials, and (iii) with laboratories in the Chemistry and Farmaceutical Sciences departments of the University of Antwerp in a Concerted Actions Programme.
- Leading the research group on Experimental Condensed Matter Physics (ECM, website: http://nat-www.uia.ac.be/ecm/) of the Physics Department at the University of Antwerp, since 1 October 2000.

Summary of scientific and academic output

List of publications available on simple inquiry.

- 94 scientific papers in internationally reknowned journals in Physics and Physical Chemistry, and a large number of oral and poster contributions in international conferences (list of publications available on
- Supervisor of master's and doctoral doctoral theses.

Other functions and responsabilities

- Member for the Physics Department of the Research Board of the University of Antwerp – UIA.
- Belgian representative for the Flemish Community in the EU COST *Technical Committee on Physics*, , since 1996.
- External expert for the Flemish Institute for Science and Technology (IWT) for selection and evaluation of PhD scholarships, and for evaluation of research proposals.
- Member of the *International Advisary Board* of the International Symposium on *Ultrafast Phenomena in Semiconductors* (10-UFPS, 31 August – 2 September 1998, and 11-UFPS, 26-29 August 2001, Vilnius, Lithuania).
- Member of the *International Program Committee*of the International Conference on *High-Frequency Electron Paramagnetic Resonance: Technology and Applications*, 12-14 april 2000, Amsterdam, Nederland

- Chairman of the Benelux EPR Society.
- Referee of international scientific journals: *The Physical Review, The Physical Review Letters, Physica Status Solid, Spectra Chimica Act.*

Membership of professional associations

- European Physical Society (EPS)
- Belgische Natuurkundige Vereniging (BNV) (Belgian Physical Society)
- American Physical Society (APS)

ANNEX V

CURRICULUM VITAE, FERENC JAKAB

Name	**Ferenc JAKAB**
Date of birth and place	**3. Oct. 1943. Miskolc, Hungary**
Home address	**1021. Budapest, Hungary** **Tárogató street 91/a.**
Office address	**Department of Surgery,** **Uzsoki Teaching Hospital** **H-1145. Budapest, Uzsoki Str. 29.** **Hungary** **Tel: 36-1-251-73-33/1760** **Fax: 36-1-220-99-50** **E-mail: Ferenc.Jakab@ella.hu**
Married to	**Susanna Szanto** **Policy and Governing Bodies** **Deputy Director General** **World Health Organization** **Regional Office for EUROPE** **Copenhagen, DENMARK**

Children:

Mellitta Jakab:	**1972 Enrolled to Ph.D. programme in Harvard University Boston USA, Topic: Health economy development in Europe**
Ádám Jakab:	**1974 Internship in the topic of European Unification. Graduated at the University of Brighton and Torino for Unification of Europe**
Gyöngyvér Jakab	**1979 Graduated at London School of Economy. Internship at Pearson Peace Keeper Center Halifax Canada**

TRAINING

1961-1967	**Medical School, Budapest,** **University of Medicine, Hungary**
1967-1971	**Resident in Surgery.** **II. Department of Surgery.** **Budapest, University of** **Medicine Hungary**
1971-1974	**Junior Surgeon 2nd Dept. of** **Surgery, Budapest. University of** **Medicine. Hungary**

POSITIONS

1974-1985	**Assistant Professor of Surgery. 3rd. Department of Surgery Budapest. Medical University. Hungary**
1985-1992	**Associate Professor of Surgery. 3rd. Department of Surgery and Department of Surgery, Semmelweis University of Medicine. Budapest, Hungary**
1992-1994	**Professor of Surgery Deputy Chairman Department of Surgery Semmelweis University of Medicine**
1995-present	**Chairman of Department of Surgery Uzsoki Teaching Hospital**
1993-present	**Faculty member, IGSC International Postgraduate School. Athens, GREECE**

INVITED VISITS:

1975. June-July	**Visiting Surgical Professor. Wesminster Hospital London U.K.**
1977 Sept.-1978 January	**Visiting Professor. New York University. Medical School. Department of Surgery. New York U.S.A.**
1980. November	**Visiting Surgical Professor at Department of Surgery, Medical University of Berlin. Hospital Charit,.**
1983 Sept.-1984. Jan.	**Visiting Professor Department of Surgery University of Pittsburgh. U.S.A.**

1988. May-Aug.	**Visiting Surgical Professor. Department of Surgery, University of Pittsburgh. Pittsburgh. U.S.A.**
1991. Dec-1992. Jan.	**Visiting Surgical Professor Department of Surgery, Transplant Unit Rigshospitalet. University of Copenhagen, Denmark**
1993. Sept.-Oct.	**Visiting Surgical Professor Department of Surgery. Faculty of Medicine McGill University, Montreal CANADA**
1997. May	**Strasbourg University, France**

DEGREES

1967.	**M.D.degree. Medical University of Budapest, Hungary**
1971.	**Specialty in general surgery. Postgraduate Medical School. Budapest, Hungary.**
1983.	**Specialty in vascular surgery. Postgraduate Medical University. Budapest, Hungary.**
1977.	**Ph.D.degree. Hungarian Academy of Sciences. Budapest, Hungary**
1997.	**D.Sc. Hungarian Academy of Sciences. Budapest, Hungary**

SOCIETY MEMBERSHIPS

Hungarian Society of Surgeons. **Function: Secretary 1984-1993**

Hungarian Society of Gastroenterology. Member of Executive Committee

Hungarian Society of Physiology

Collegium Internationale Chirurgie Digestive (CICD)

World Association of Hepato-Billiary-Pancreatic Surgery

International College of Surgeons

International Gastro-Surgical Club (IGSC) Member of Executive Committee
Member at Large

Hungarian Chapter of IGSC. Function: Secretary General

Transplant Society of Australia and New Zealand

New York Academy of Sciences

Society Internationale de Chirurgie (SIC)

International Society of Prevention in Clinical Medicine Function: President

EDITORIAL BOARD

1. Hungarian Surgery, editor 1992-

2. Journal of Hepato - Gastroenterology

3. Acta Chirurgica Austriaca

4. Medical Joutnal of Hungary editoriant board

ADVISORYBOARD

International Gastro-Surgical Club

Council of Europe, expert in the field of transplantation of human organs

AREAS OF INTEREST

- hepato-billiary and pancreatic surgery
- liver transplantation
- liver regeneration
- biomaterials

- surgery of the oesophagus
- surgical oncology
- acute and chronic pancreatitis

- surgery of splanchnic, coeliac and peripherial arterial diseases and carotid artery.
- surgical endoscopy
- implantable biomaterials in vascular surgery

RESEARCH EXPERIENCE

- blood and lymph circulation of the liver, splanchnic region
- liver transplantation
- development of gallstones

PUBLICATIONS

- 196 scientific articles, 324 lectures,

-*Thesis*: The Afferent Blood and Lymph

Circulation of the Liver after the Occlusion of the Common Bile

Duct. 1977. Hungarian Academy of Sciences.

-*Book*: New Opportunities in Liver and Biliary Surgery.

1988. Budapest. Ed: Medicine

***Chapters* in" Surgery" Ed.: Gal Cs., Typo Art Kft. Budapest. 1991.:**

1. Surgery of Pancreas

2. Surgery of Liver

3. Surgery of Biliary Tract

4. Liver Transplantation

5. Risk Factors in Abdominal Surgery. In "Medical Selection of Life Risks" Edited by J. Fehér MEDICINA. Budapest 1994.

6. *Chapters* in" Surgery" Ed.: Gal Cs., Typo Art Kft. Budapest. 1999.:

7. Hepatology: Ed.: J. Fehér Budapest, 2001. Liver and biliary surgery

SCIENTIFIC AND RESEARCH GRANTS SUPPORTED BY THE

MINISTRY OF WELFARE AND HUNGARIAN NATIONAL

SCIENTIFIC AND RESEARCH FOUNDATION

1., The Prognostic Value of Metabolic Changes Related

to the Liver and Gastrointestinal Tract

N^{O} of Grant: 384. 1986-1990. Supported by Ministry of Health, Hungary

2., Research of the Intra cellular Changes and the

Hepatic Circulation on Animals and Humans Before and After Liver

Transplantation

N^{O} of Grant: M-005/1990. 1991-1993. Supported by Ministry of Health

Welfare, Hungary

3., The Hepatic Circulation Before and After Liver Transplantation

N^{O} of Grant: 1063. 1991-1994. Supported by Hungarian National

Scientific and Research Foundation

BIOMATERIALS

Areas of interest:

Prevention of diseases and biomaterials. Environment, biomaterials, and genetics. Implantation of biomaterials into the human body and biological responses. Prevention of diseases in clinical medicine = bioprotection, bio- and chemoprevention against cancer.
Field of practice in the capacity of President of International Society of Prevention in Clinical Medicine (ISOP).
Standards for implantable biomaterial

ANNEX VI

NOMINATION BY SPAIN

CURRICULUM VITAE

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Education

(a) Licenciate in Chemistry by the Universidad Complutense de Madrid, 1960-65

(b) PH Thesis in Chemistry by the Universidad Complutense de Madrid, "*Dispersión de luz del PMMA en disolución*", *Sobresaliente* "*Cum Laude*", 1971

RESEARCH

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"*Propiedades del PMMA en solución diluida*", A. Roig e **I. Katime**

3) **XV Reunión Bienal de la Real Sociedad Española de Física y Química**, Tarragona (Septiembre-Octubre 1971):

a) "*Dimensiones sin perturbar del PMMA en disolventes mixtos*", A. Roig, **I. Katime**
b) "*Volumen excluido en disoluciones de PMMA*", A. Roig e **I. Katime**
c) "*Comprobación experimental de las teorías del volumen excluido*", A. Roig, **I. Katime** y C. Ramiro Vera
d) "*Interacciones termodinámicas del PMMA en disolución*", A. Roig e **I. Katime**
e) "*Determinación del punto Theta a bajas temperaturas por osmometría de membrana*", A. Roig, **I. Katime** y P. Gutiérrez Cabañas

4) **XVI Reunión Bienal de la Real Sociedad Española de Física y Química**, Oviedo (Septiembre 1973):

a) "*Difusión de luz mediante el empleo del Laser*", A. Roig, **I. Katime** y S. Montero
b) "*Dimensiones no-perturbadas del polimetacrilato de metilo isotáctico*", A. Roig, **I. Katime** y M. Fernández Gonzalez
c) "*Propiedades termodinámicas del PMMA en disolución*", A. Roig, **I. Katime** y C. Ramiro Vera
d) "*Determinación del segundo coeficiente del virial*", A. Roig, **I. Katime** y P. Gutiérrez Cabañas
e) "*Propiedades en disolución del poli(p-cloroestireno)*" **I. Katime** y J.M. Teijón
f) "*Influencia de la tacticidad en la adsorción preferencial*", **I. Katime** y C. Strazielle

5) **Makromolekulare Kolloquium** Freiburg (Alemania) en 1973

6) **XVII Reunión Bienal de la Real Sociedad Española de Física y Química**, Alicante (Octubre-Noviembre 1975):

a) "*Estudio termodinámico del polibutano-1 isotáctico en disolución*", **I. Katime** y A. Cadenato
b) "*Estudio de la adsorción preferencial en el sistema PMMA atáctico/cloroformo/n-propanol*", **I. Katime** y A. Campos
c) "*Estudio químico-físico del sistema ternario: polibutano-1 isotáctico/ciclohexano/n-propanol. Influencia del peso molecular en el fenómeno de la solvatación preferencial*", **I. Katime**, P. Garro y J.M. Teijón
d) "*Dimensiones sin perturbar del PMMA*", **I. Katime** y A. Campos
e) "*Estudio de transiciones conformacionales del PMMA en disolución*", **I. Katime**, A. Roig y C. Ramiro Vera
f) "*Estudio de las interacciones inter- e intramoleculares del PMMA en disolución*", **I. Katime**, A. Roig y F. Gutiérrez Cabañas

7) **75 Aniversario de la Real Sociedad Española de Física y Química**, Madrid Octubre 1978:

a) "*Estudio de la solvatación preferencial del PMMA en mezclas binarias polares*", **I. Katime** y R. Valenciano
b) "*Estudio del coeficiente de adsorción preferencial en mezclas cosolventes*". J.M. Teijón e **I. Katime**
c) "*Estudio conformacional del PMMA en disolución*", **I. Katime**, P. Gutiérrez Cabañas y C. Ramiro Vera
d) "*Estudio de la interacción Lisozima-Cu(II) por dilatometría, refractometría diferencial y osmometria de presión de vapor*", C. Abad e **I. Katime**

8) **X Jornadas Chilenas de Química**, Valdivia (Chile) Enero 1979:

"*Adsorción preferencial en el sistema polimetacrilato de p-tertbutilfenilo/acetona/ciclohexano*", L. Gargallo, D. Radic e **I. Katime**

9) **XVIII Reunión Bienal de la Real Sociedad Española de Física y Química**, Burgos Septiembre de 1980:

a) "*Transición conformacional del PMMA en derivados mono y diclorados del benceno*". **I. Katime**, P. Gutiérrez Cabañas y C. Ramiro Vera
b) "*Estudio de coeficientes viscosimétricos del PMMA en disolución*", P. Gutiérrez Cabañas, C. Ramiro Vera e **I. Katime**
c) "*Propiedades en disolución del polimetacrilato de ciclohexilo*", **I. Katime**, X. Ibarra y R. López-Arbeloa
d) "*Relación entre la solvatación preferencial, la viscosidad intrínseca y las dimensiones moleculares*", **I. Katime** y B. Amo

e) "*Estudio por difusión de luz y viscosimetría del sistema PMMA(3)/Cloroformo(1)/ésteres del ácido acético(2)*", R. Valenciano, M. Otaduy, T. Nuño e **I. Katime**
f) "*Estudio viscosimétrico y refractométrico del sistema cosolvente polimetacrilato de p-terbutil fenilo(3)/acetona(1)/ciclohexano (2)*", L. Gargallo, D. Radic, **I. Katime** y F. Aguilar
g) "*Comportamiento del PMMA(3) en la mezcla cosolvente CCl_4(1)/cloruro de butilo(2)*", J.R. Ochoa, J. Peñafiel e **I. Katime**
h) "*Adsorción preferencial del PMMA sindiotáctico en las mezclas binarias CCl_4(1)/metanol(2), CCl_4/n-propanol(2) y CCl_4(1)/n-butanol(2)*", J.M. Teijón, J. Tamarit e **I. Katime**
i) "*Determinación de las constantes de asociación de la antipirina y 4-aminoantipirina por osmometría de presión de vapor*", F. Aguilar e **I. Katime**
j) "*Síntesis y propiedades de algunos dicromatos de base orgánica*", P. Gili e **I. Katime**
k) "*Cromatografía líquido-sólido. Aplicaciones a la caracterización de polímeros*", A. Azumendi e **I. Katime**

10) **XXVI International Symposium on Macromolecules (IUPAC)** Florencia (Italia) Septiembre 1980):

a) "*Conformacional Transition in Poly(cyclohexyl Methacrylate)*", **I. Katime**, X. Ibarra, J.M. Teijón y R. López Arbeloa

11) **I Congreso Hispano-Portugés de Bioquímica**, Coimbra (Portugal) (Abril 1980):

"*Interactions of Surfactants with Biological Membranes. I. Vapour Pressure Osmometry of Detergent-Water Systems*", J.L. Allende, **I. Katime** y F. Goñi

12) **XXVII International Symposium on Macromolecules (IUPAC)**, Estrasburgo (Francia) Julio 1981:

"*Conformational Transition in Poly(Methyl Methacrylate)'s*", **I. Katime**

13) **II Jornadas de Física,** Estrasburgo, Mayo 1981 (Francia).

14) **II Congreso de la FESBE**, Madrid Julio 1981:

"*Transición hélice-cadena estadística del PLGB en la mezcla binaria p-dioxano/ciclohexanona*", J.M Teijón, J. Tamarit, J.R. Ochoa e **I. Katime**

15) **Fourth Annual Meeting of the Portugese Chemical Society,** Lisboa (Portugal) Abril 1981:

a) "*Propiedades termodinámicas del PMMA en mezclas polares*", **I. Katime**, R. Valenciano, M. Otaduy, T. Nuño, A. Beraza y C. Cesteros
b) "*Solution Properties of Poly(cyclohexyl Methacrylate)*", X. Ibarra, **I. Katime**, R. López-Arbeloa, J. Suso y J Mezo
c) "*Temperatura Theta del PMMA sindiotáctico*", **I Katime**, P. Gutiérrez Cabañas y C. Ramiro Vera
d) "*Transición hélice-cadena estadística en polipéptidos sintéticos*", **I. Katime**, J.R. Ochoa, J.M. Teijón Rivera y J. Tamarit
e) "*Síntesis y propieades de algunos dicromatos de base orgánica*", P. Gili e **I. Katime**
f) "*Relación entre la solvatación preferencial y la viscosidad*", **I. Katime**, B. Amo, J.R. Vicuña, M. Berraondo y J.A. Pérez Ortiz
g) "*Propiedades del polimetacrilato de p-tertbutilfenilo en disolución*", L. Gargallo, D. Radic, **I. Katime** y F. Aguilar
h) "*Láminas reabsorbibles de resistencia variable*", M. Martinez, **I. Katime**, D. Brandau, J.M. Teijón y F. Abad
i) "*Funciones de exceso de no-electrolitos por osmometría*", F. Aguilar, A. Rodriguez e **I. Katime**
j) " *Fluidez, fijación y deformación de los cementos acrílicos*", M. Martinez, **I. Katime**, J.M. Teijón, F. Abad y D. Brandau
k) "*Estudio de la compatibilidad del poliestireno con n-alcanos*". F. Aguilar e **I. Katime**
1) "*Excess functions of $TlAH_2SO_4$ in benzene at 25, 37 and 50°C*", M. Aurrekoetxea, **I. Katime** y J.M. Madariaga
m) "*Diseño y construcción de un cromatógrafo líquido-sólido*", A. Azumendi e **I. Katime**
n) "*Compatibilidad de las interfases carbón-sangre*", M. Martínez, J.M. Teijón, D. Brandau, **I. Katime** y F. Abad
o) "*Conformational Transitions in different Polymethacrylates*", **I. Katime**, R. Valenciano, P. Gutiérrez Cabañas y C. Ramiro Vera
p) "*Asociación del TDS en disolución acuosa entre 37-90°C*", J.L. Allende e **I. Katime**
q) "*Aggregation Equilibria of $TLAH_2SO_4$ in Benzene*", M. Aurrekoetxea, **I. Katime** y J.M. Madariaga
r) "*Estudio termodinámico del sistema PMMA/CCl_4/cloruro de butilo*", J. Peñafiel, J.R. Ochoa, R. Valenciano, **I. Katime** y J. Juanes

16) **IUPAC International Symposium on Interrelations between Processing, Structure and Properties of Polymeric Materials**, Atenas (Grecia) Agosto 1982:

"*Study of the relationship between Cosolvency and Association of PMMA by DTA and VPO*", **I. Katime**, J.R. Ochoa, J.R. Quintana, P. Gutiérrez Cabañas y C. Ramiro Vera

17) **XIX Reunión Bienal de la Real Sociedad Española de Química**, Santander Septiembre-Octubre 1982:

a) "*Síntesis, propiedades, caracterización química y estudio termodinámico de los polimolibdatos de etilpiridinio*", P. Román, M. E. González-Aguado, L. Lorente e **I. Katime**
b) "*Polimerización del vinilcarbazol por análisis térmico diferencial*", J. Peñafiel, **I. Katime**, J. Veguillas y C. Cesteros
c) "*Energía libre de Gibbs de exceso, G^E, para el sistema 1,2-dicloroetano(1)/acetonitrilo(2). Estudio por difusión de luz*", **I. Katime**, C. Cesteros, J.R. Ochoa y C. Strazielle
d) "*Estudio del PMMA en mezclas cosolventes*", **I. Katime**, R. Valenciano, J.R. Ochoa y B. Caballero
e) "*Determinación del mecanismo, número de asociación y constantes de equilibrio en disoluciones acuosas de SDS a diferentes temperaturas*", J.L. Allende e **I. Katime**
f) "*Variación de las constantes de dimerización y multimerización con respecto a la temperatura en disoluciones acuosas de detergentes aniónicos*", J.L. Allende e **I. Katime**
g) "*Asociación y cosolvencia del PMMA. Osmometría de presión de vapor*", **I. Katime**, J.R. Ochoa y L.C. Cesteros
h) "*Transición conformacional en el PMMA. Influencia de la tacticidad*", P. Gutiérrez Cabañas, C. Ramiro Vera e **I. Katime**
i) "*Formación del estereocomplejo del PMMA iso/sin en mezclas cosolventes en disolventes fuertemente complejantes*", J. R. Quintana, J. Veguillas, C. Cesteros, J.R. Ochoa e **I. Katime**
j) "*Cálculo del parámetro λ de Ptitsyn-Eizner para el PMMA en buenos disolventes*", **I. Katime**, J.R. Quintana, J.R. Ochoa y C. Cesteros
k) "*Influencia de los colorantes alimentarios en la conformación del PVP*", J.M. Teijón, J. Tamarit, R. Cebeira, **I. Katime** y A. Azumendi

18) **XIX Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas**, Málaga Diciembre 1982:

a) "*Interacciones entre proteinas y metales divalentes*", A. Villarino, J.M. Teijón, R. Cebeira, C. de Dios e **I. Katime**
b) "*Estudio hidrodinámico del PVP en presencia de colorantes alimentarios*", J.M. Teijón, **I. Katime**, J. Tamarit, J. Onrubia y D. Blanco

19) **Fifth Annual Meeting of the Portuguese Chemical Society** Oporto (Portugal) Marzo-Abril 1982:

a) "*Adsorción preferencial del PMMA atáctico en mezclas cosolventes*", J.R. Ochoa, J.R. Quintana, C. Cesteros e I. **Katime**
b) "*Mezclas cosolventes PMMA/CCl_4/Cloroalcanos. Estudio comparativo*", J.R. Ochoa, J.R. Quintana, C. Cesteros e **I. Katime**

c) "*Estudio cinético de polimerizaciones por calorimetría diferencial*", C. Cesteros, J.R. Ochoa, J.R. Quintana e **I. Katime**
c) "*Estudio cinético de polimerizaciones por calorimetría diferencial*", C. Cesteros, J.R. Ochoa, J.R. Quintana e **I. Katime**
d) "*Estudio conformacional del PMMA en cetonas*", P. Gutiérrez Cabañas, C. Ramiro Vera e **I. Katime**
e) "*Peso molecular y temperatura de transición vítrea en el PMMA*", **I. Katime**, P. Gutiérrez Cabañas, J.M. Teijón y J.A. Onrubia
f) "*Influencia de ciertos iones en la actividad de la hexoquinasa*", J. M. Teijón, **I. Katime**, C. de Dios, A. Villarino y A. Gómez Iglesias
g) "*Estudio de la interacción entre el PVP y colorantes alimentarios*", **I. Katime**, J.M. Teijón, J. Onrubia, R. Cebeira, M Martínez Maté y G. Poza
h) "*Propiedades del PMMA sindiotáctico en diversos disolventes*", P. Gutiérrez Cabañas, C. Ramiro Vera e **I. Katime**
i) "*Síntesis y propiedades del PNVC y $PNVCBr_2$ en mezclas binarias*", **I. Katime**, R. López Arbeloa, J. Suso, J. Peñafiel y C. de Dios
k) "*Estudio del comportamiento hidrodinámico del sistema PMMA(3)/THF (1)/Agua(2)*", **I. Katime**, C. Cesteros, J.R. Ochoa y J.R. Quintana
1) "*Oscilaciones químicas en la descomposición térmica de la ditionita sódica*", J.A. Pérez Ortiz e **I. Katime**

20) **IUPAC International Symposium on Polymer Processing and Properties**, Nápoles (Italia) Junio 1983:

a) "*Relationship between Ptitsyn-Eizner l Parameter and Conformational Transition*", **I. Katime**, P. Gutiérrez Cabañas y C. Ramiro Vera
b) "*Properties of PMMA Stereocomplex in Solid State and Solution*", I. Katime y J.R. Quintana

21) **XIVth Meeting of the Spanish Committee on Surface Active Agents**, Barcelona (Marzo de 1983):

> "*Estudio de disoluciones micelares acuosas de detergentes aniónicos por osmometría de presión de vapor*", J.L. Allende e **I. Katime**

22) **II Congreso Luso-Español de Bioquímica SEB/SPB**, Barcelona Septiembre 1983:

"*Cambios conformacionales de polipéptidos en mezclas binarias*", J.M. Teijón, J.R. Ochoa, J.L. Allende e **I. Katime**

23) **XVth Meeting of the Spanish Committee on Surface Active Agents**, Puerto de la Cruz-Tenerife Septiembre 1984:

> "*Estudio termodinámico de sistemas micelares acuosos de detergentes aniónicos. Desviación de la idealidad y calidad termodinámica del disolvente*", **I. Katime** y J.L. Allende

24) **XXXIX International Simposium on Macromolecules (IUPAC)**, Bucarest (Rumania) Septiembre 1983:

a) "*Preferential Adsorption in Cosolvent Mixtures: Carbon tetrachlori-de/Chloroalkane*", J.R. Ochoa e **I. Katime**
b) "*Stereocomplex formation in Solvent Mixtures*", **I. Katime**, J.R. Quintana, J. Veguillas y C. Strazielle
c) "*Properties in Dilute Solution of Atactic Poly(Methyl Methacrylate in Mixed Solvents*", L.C. Cesteros, **I. Katime** y C. Strazielle

25) **Congreso Iberoamericano de Ciencias Químicas**, Lima (Perú) Octubre 1983:

"*Transiciones conformacionales en ésteres polimetacrilicos con grupos laterales alicíclicos y aromáticos*", L. Gargallo, **I. Katime** y D. Radic

26) **Sixth Annual Meeting of the Portuguese Chemical Society**, Aveiro (Portugal) Abril 1983:

a) "*Hydrodynamic Properties of PMMA/Chloroform/Butyl acetate System*", R. Valenciano, D. Yoldi e **I. Katime**
b) "*Influence of Solvent on PMMA Stereocomplex Formation*", J.R. Quintana, J. Veguillas e **I. Katime**
c) "*Compatibility of Polymer Solutions. Laser Light Scattering Study*", R. Valenciano, M. Anasagasti e **I. Katime**
d) "*Ptitsyn-Eizner Lambda Parameter. Conformational Transition*", C. Ramiro Vera, P. Gutiérrez Cabañas e **I. Katime**

27) **IX Reunión Nacional de Espectroscopia. Congreso Ibérico de Espectroscopía**, Salamanca-Coimbra Octubre 1983:

"*Formación de agregados de la Rodamina-6G en disolución etanólica*", P. Ojeda, J.R. Ochoa, I. López-Arbeloa e **I. Katime**

28) **5th International Symposium on Surfactants in Solution**, Burdeos (Francia) Julio 1984:

"*Thermodynamic Behaviour of Sodium Deoxycholate, Sodium Dodecyl Sulphate and Sodium Tetradecylsulphate Micellar Solutions*", **I. Katime** y J. L. Allende

29) **IV Coloquido Nacional de Polímeros, Mérida** (Venezuela) Octubre 1984:

a) "*Métodos de caracterización de polímeros*"
b) "*Transiciones conformacionales en polimetacrilatos*"

Además presenté la Comunicación:

"*Influencia de la temperatura de irradiación en los procesos de degradación de polietileno en solución*", D. Miranda, **I. Katime**, G. Arribas y G. Sánchez

30) **XI Congreso de la Sociedad Española de Bioquímica**, Puerto de la Cruz-Tenerife Septiembre de 1984:

"*Efecto del ión Ca^{2+} en la fosforilación de la glucosa*", R. Cebeira, P. Posada, **I. Katime** y J.M. Teijón

31) **XX Reunión Bienal de la Real Sociedad Española de Química**, Castellón (Septiembre de 1984):

a) "*Complejos del polivinilcarbazol con $CuCl_2.H_20$*", J. R. Ochoa, T. Rojo, J.A. Rojo e **I. Katime**
b) "*Estudio del estereocomplejo del PMMA mediante GPC*", J.R. Quintana, C. Strazielle, J. Veguillas e **I. Katime**
c) "*Estudio del proceso de asocación en sistemas binarios STS/Agua en la región micelar*", J.L. Allende e **I. Katime**
d) "*Determinación de funciones de exceso por difusión de luz a laser*", **I. Katime**, J. Escobal y J.R. Ochoa
e) "*Propiedades termodinámicas de sistemas micelares*", **I. Katime** y J. L. Allende
f) "*Funciones de Gibbs de exceso en mezclas binarias polares de líquidos por difusión de luz*", **I. Katime**, C. Cesteros y C. Strazielle
g) "*Desviación de la idealidad de sistemas binarios agua/STS en la región micelar*", J.L. Allende e **I. Katime**
h) "*Transiciones conformacionales en polimetacrilatos*", **I. Katime**
i) "*PMMA/Cloroformo/Esteres alifáticos: Influencia de la longitud de cadena de éster*", R. Valenciano, M. Anasagasti e **I. Katime**
j) "*Compatibilidad del PMMA y PS en tolueno*", R. Valenciano, M. Anasagasti e **I. Katime**
k) "*Influencia del disolvente en la formación del estereocomplejo del PMMA*", J.R. Quintana, C. Strazielle, J. Veguillas e **I. Katime**
1) "*Estudio térmico de la mezcla PMMA/Poli(N-vinil carbazol)"*, **I. Katime**, J.M. Rego y J. Onrubia
m) "*Estudio de la adsorción total del PMMA en mezclas binarias polares de líquidos*", C. Cesteros e **I. Katime**
n) "*Propiedades termodinámicas del PMMA atáctico y sindiotáctico en diversos disolventes*", P. Gutiérrez Cabañas, **I. Katime** y C. Ramiro Vera
o) "*Comportamiento viscosimétrico del sistema PMMA atáctico (3)/acetonitrilo(1)/L-mentol(2)*", **I. Katime**, J. M. Teijón y D. Blanco
p) "*Efecto del ión Pb en la conformación de la lisozima*", J.M. Teijón, A. Rodriguez e **I. Katime**
q) "*Solvatación preferencial del PMMA y algunos de sus derivados*", L. Gargallo, D. Radic e **I. Katime**

32) **I Simposio de Macromoléculas**, Bilbao Enero 1985:

a) "*Solvatación preferencial del PMMA en cloroformo/acetato de butilo*", R. Valenciano, I. Rivas, M. Anasagasti e **I. Katime**
b) "*Aplicación de la calorimetría diferencial de barrido al estudio de mezclas de polímeros*". M. Rego e **I. Katime**
c) "*Estudio de sistemas ternarios polímero/polímero/disolvente*", M. Anasagasti, R. Valenciano e **I. Katime**
d) "*Miscibilidad de polímeros cristalinos y amorfos*", J.R. Quintana, D. Radic, L.C. Cesteros e **I. Katime**

33) **XVIth Meeting of the Spanish Committee on Surface Active Agents**, Barcelona Marzo 1985:

> "*Determinación de las propiedades molares parciales en sistemas binarios detergente aniónico/agua en la región micelar*", J.L. Allende, M.I. Roncero e **I. Katime**

34) **Reunión Científica Anual del Grupo de Cromatografía y Técnicas Afines**, Sevilla Octubre 1985:

a) "*Estudio cromatográfico de la formación de estereocomplejos del PMMA*", **I. Katime**, J.R. Quintana y C. Strazielle
b) "*Automatización de un cromatógrafo líquido*", **I. Katime**, J.R. Quintana, L.C. Cesteros y C. Strazielle
c) "*Estudio de la solvatación preferencial de polimetacrilatos en sistemas polares por GPC*", **I. Katime** y L.C. Cesteros

35) **Eight Annual Meeting of the Portugues Chemical Society**, Braga (Portugal) Abril 1985:

a) "*Study of PMMA/PNVK blends by DTA*", **I. Katime** y M. Rego
b) "*Bulk Polymerization Kinetics of Dimethyl Amino Ethyl Methacrylate by DTA*", **I. Katime** y T. Nuño
c)"Temperature Dependence of Viscosity of PCHMA in Methyl Isobutyl Ketone", **I. Katime**
d) "*Viscometric Behaviour of the PMMA/Acetonitrile/L-menthol system*", **I. Katime**, J.M.Teijón, D. Blanco, J.A. Onrubia y R. Cebeira
e) "*Comportamiento del PMMA en diversos líquidos orgánicos*", C. Ramiro Vera, P. Gutiérrez Cabañas e **I. Katime**
f) "*Thermodynamic Study of L-menthol in ACN and $CC1_4$ by VPO*", **I. Katime** y P. Sasia
g) "*Determinación de la CMC de un nuevo detergente por OPV*", **I. Katime**, F.M. Goñi, A. Alonso y A. Partearroyo

36) **Special FEBS Meeting**, Algave (Portugal) Abril 1985:

> "*Viscometric and Densitometric Study of Lysozyme-Pb(II) Interactions*". J.A. Onrubia, **I. Katime**, M.D. Blanco y J.M. Teijón

37) **XXX International Symposium on Macromolecules**, La Haya (Holanda) (Agosto 1985):

a) "*Behaviour of PMMA on the Acetonitrile/L-menthol Mixture*", **I. Katime**, J.M. Teijón, D. Blanco y P. Sasia
b) "*Study of the Compatibility of POE with Polymethacrylates by DTA*", **I. Katime**, C. Cesteros, J.R. Quintana y D. Radic
c) "*Preferential Adsorption Behaviour of PMMA and its Derivatives in p-dioxane(1)/Methanol(2)*", **I. Katime**, L. Gargallo, D. Radic y A. Horta
d) "*Total and Preferential Sorption of PMMA in Polar Binary Mixtures*", C. Cesteros, C. Strazielle e **I. Katime**
e) "*Study on the Composition of the PMMA Stereocomplex by GPC*", **I. Katime**, J.R. Quintana y C. Strazielle

38) **XVI Jornadas Chilenas de Química**, Osorno (Chile) Diciembre 1985:

a) "*Compatibilidad en mezclas de poliitaconatos y poli(óxido de etileno)*", H. Ríos, C. Cesteros, J.R. Quintana e **I. Katime**
b) "*Adsorción preferencial-estructura química en ésteres polimetacrílicos*", N. Hamidi, **I. Katime**, L. Gargallo y D. Radic

39) **4th International Meeting on Polymer Science and Technology**, la Plata (Argentina) Octubre 1985:

"*Preferential Adsorption Behaviour of PMMA and its Derivatives in p-dioxane(1)/methanol(2)*", **I. Katime**, A. Horta, L. Gargallo y D. Radic

40) **XIII Udako Euskal Unibertsitatea**, Iruiñea Julio 1985:

"*Análisis termiko diferentzialde dimetil amino etil metakrilatoaren masa-polimerizazioaren zinetika*", T. Nuño e **I. Katime**

41) **XX Reunión Bienal de la Real Sociedad Española de Física**, Sitges (Barcelona) Septiembre-Octubre 1985:

a) "*Quasi-elastic Light Scattering of Micro and Physical Gels*", J.R. Quintana e **I. Katime**
b) "*Comportamiento hidrodinámico del estereocomplejo del polimetacrilato de metilo*", J.R. Quintana e **I. Katime**
c) "*Estudio dieléctrico de la relajación beta del PMMA y del PS*", M.A. Pérez Jubindo, R. Balda, A. Ezcurra e **I. Katime**

42) **XXXV Convención Nacional de ASOVAC**, Mérida (Venezuela) Noviembre 1985:

a) "*Cinética de polimerización del 1-vinil imidazol a conversión total seguida por DTA*", **I. Katime**, T. Nuño y J.R. Quintana
b) "*Comprobación de las teorías de Flory-Huggins y Flory-Prigogine en sistemas termarios polares*", **I. Katime** y C. Cesteros

c) "*Estudio de la compatibilidad de polimetacrilatos con políme-ros cristalinos*", **I. Katime**, J.R. Quintana, C. Cesteros, D. Radic y F. Rabagliati
d) "*Solvatación prferencial del PMMA en el sistema binario acetonitrilo/p-dioxano*", **I. Katime**, J. Escobal y J.R. Ochoa

43) **XXI Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas**, Oviedo Diciembre 1985:

a) "*Cambios conformacionales inducidos por colorantes alimentarios en la lisozima de clara de huevo*", J.A. Onrubia, **I. Katime**, J.M. Teijón, M.D. Blanco y E. Colominas
b) "*Modelo químico-físico de la conformación de la lisozima*", A. Rodríguez, I. Busturia, C. de Dios, **I. Katime** y J.M. Teijón
c) "*Influencia del disolvente en la conformación de polipéptidos*", J.M. Teijón e **I. Katime**
d) "*Cambios conformacionales en lisozima inducidos por Pb(II)*", M.D. Blanco, J.A. Onrubia, A. Rodriguez, **I. Katime** y J.M. Teijón

44) **6th International Symposium on Surfactants in Solution**, Nueva Delhi (India) (Agosto de 1986):

"*The Critical Micellar Concentration of CHAPS*", F.M. Goñi, A. Alonso, A. Partearroyo e **I. Katime**

45) **9th Annual Meeting of the Portuguese Chemical Society**, Coimbra (Portugal) Junio 1986:

a) "*Calorimetric Study of the PVP/PMMA blends*", **I Katime** y M. Fernández
b) "*Solution Behaviour of Methacrylic Polymers in Binary Mixtures*", **I. Katime**, P. Sasia y M.B. Huglin
c) "¨*Structural Study on Stereocomplex Particles*", **I Katime**, J.R. Quintana y C. Cesteros
d) "*Polymerization Kinetics of Mono Alkyl Itaconates*", **I. Katime**, T. Nuño y H. Rios
e) "*Influencia de hidrocarburos en las propiedades fisicas del caucho*", **I. Katime** y a. Matellanes

46) **V Seminario de Polímeros (V Sempol),** Brasil-Chile Julio1986:

"*Preferential Adsorption. Theoretical and experimental aspects*", D. Radic, L. Gargallo, A. Horta e **I. Katime**

47) **XVIIth Meeting of the Spanish Committee on Surface Active Agents,** Madrid Marzo 1986:

"*Variación de las propiedades termodinámicas del disolvente en sistemas binarios detergente aniónico/agua en la región micelar*", J.L. Allende, M.I. Roncero e **I. Katime**

48) **V Coloquio Nacional de Polímeros,** Cumaná (Venezuela) Julio 1986:

"*Influence of the Lateral Substituent on the Polymerization of Methacrylic Derivates at High Temperatures*", **I. Katime** y T. Nuño

49) **XXI Reunión Bienal de la Real Sociedad Española de Química**, Santiago de Compostela Julio 1986):

a) "*Estudio de propiedades térmicas de la mezcla polimérica PTHF-PMMA*", **I. Katime**, I. Rivas, R. Valenciano y M. Anasagasti
b) "*Estudio del proceso de estereocomplejación del PMMA mediante un acoplamiento GPC-DDL*", **I. Katime**, J.R. Quintana y C. Strazielle
c) "*Influencia del sustituyente lateral en la polimerización de poliitaconatos de cadena*", **I. Katime**, T. Nuño, H. Rios y D. Radic
d) "*Estudio de sistemas ternarios por difusión de luz a laser*", R. Valenciano, S. Anasagasti, J.J. del Olmo, C. Sanz e **I. Katime**
e) "*Compatibilidad del POE y PMMA en dicloroetano*", **I. Katime**, R. Valenciano, C. Sanz y S. Anasagasti
f) "*Polimonoalquil itaconatos de cadena corta. Estudio viscosimétrico y de difusión de luz a laser*", **I. Katime** y H. Rios
g) "*Comportamiento del poli(metacrilato de etilo) en la mezcla binaria acetato de etilo/metanol*", J.M. Teijón, D. Blanco e **I. Katime**
h) "*Transición conformacional en polímeros sintéticos: correlación de parámetros termodinámicos*", **I. Katime**, C. Ramiro Vera y P. Gutiérrez Cabañas
i) "*Estudio de las cinéticas de cristalización de mezclas de LPE/LPE y LPEE/BPE*"", **I. Katime**, J.M. Rego y U.W. Gedde
j) "*Teorías de adsorción preferencial con interacciones específicas. Aplicación a poli(alquil metacrilatos)/metanol + p-dioxano*", A. Horta, D. Radic, L. Gargallo e **I. Katime**

50) **Simposio de Química y Física de Polímeros**, Concepción (Chile) Noviembre 1986:

a) "*Conformational Transitions in Synthetic Polymers*" (Inagural Conference)
b) "*Preferencial Adsorption in Systems with Specific Interactions*", D. Radic, A. Horta, L. Gargallo e **I. Katime**

51) **II Reunión Luso-Galaico de Química**, Oporto (Portugal) Noviembre de 1986:

"*Kinetic Study of Human Compatible Polymers*", **I. Katime** y T. Nuño

52) Asistí al Curso sobre **"Inteligencia Artificial and Expert Systems"**, Marsella (Francia) (Diciembre de 1986).

53) **XVIIIth Meeting of CEDIAID** Barcelona Marzo 1987:

"*Equilibrio termodinámico y propiedades de exceso en sistemas micelares sal biliar/agua*", J.L. Allende, I. Roncero e **I. Katime**

54) **XXII Congreso Nacional de la Sociedad Española de Ciencias Fisiológicas**, Badajoz Abril 1987:

a) "*Propiedades de flujo de polímeros humano-compatibles*", D. Blanco, J.M. Teijón, J.A. Onrubia e **I. Katime**
b) "*Comportamiento del 2-etoxietil metacrilato en la mezcla binaria n-butil alcohol/DMF*", R. Cebeira, I. Busturia, J.M. Teijón e **I. Katime**

55) Rolduc **Polymer Meeting-2**, Kerkrade (Holanda) Abril 1987:

"*Polymer Blends*", **I. Katime**

56) **I Coloquio Nacional de Polímeros**, Barranquilla (Colombia) Mayo 1987:

a) "*Cinética de polimerización a conversión total en estado fundido. Influencia del sustituyente lateral del monómero*", **I. Katime** y T Nuño
b) "*Comportamiento termodinámico de algunos polimetacrilatos en la mezcla binaria tolueno/cloruro de n-butilo*", **I. Katime,** P. Sasia y M.B. Huglin
c) "*Transiciones conformacionales en macromoléculas sintéticas. Correlacción de parámetros termodinámicos*", **I. Katime**

57) **European Symposium on Polymer Blends**, Estrasburgo (Francia) Mayo 1987:

"*Kinetics of Crystallization and Thermal Behaviour of POE/PVAL Blends*", J.R. Quintana, M.C. Peleteiro, L.C. Cesteros e **I. Katime**

58) **International Symposium on Free Radical Polymerization: Kinetics and Mechanism**, Genova (Italia) Mayo 1987:

"*Application of DTA to Kinetics of Free Radical Bulk Polymeriza-tion*", **I. Katime** y T. Nuño

59) **European Symposium on Polymeric Materials**, Lyon (Francia) Septiembre 1987:

"*Compatibility of Poly(ethylene oxide)/Poly(vinyl chloride) Blends by Differential Scanning Calorimetry*", **I. Katime**, J.R. Quintana, L. C. Cesteros, R. Valenciano y M. Anasagasti

60) **XXI IUPAC Macromolecular Symposium,** Merseburgo (Alemania Occidental) Junio 1987:

a) "*PMMA Stereocomplex: Study of the aggregation Process by Electron Microscopy*", J.R. Quintana, R. Stubbersfield, C. Price e **I. Katime**
b) "*Comparative Study of the Bulk Polymerization Kinetics of Methacrylic Derivatives at High Temperatures by DTA*",T. Nuño, D. Radic e **I. Katime**
c) "*Solvation Preferential of the Polymethacrylates/Toluene/n-butyl Chloride Systems*", P. Sasia, M.B. Huglin e **I. Katime**

61) **XIV Congreso Nacional de la Sociedad Española de Bioquímica**, Málaga Septiembre 1987:

"*Estudio viscosimétrico de la lisozima en presencia de colorantes alimentarios*", M.D. Blanco, J.A. Onrubia, **I. Katime** y J.M. Teijón

62) **International Symposium on Polymer Materials**, San Sebastián Agosto de 1987:

a) "*Crystallization and Melt Behaviour of Poly(Vinylidene Fluoride) + Poly (Vinyl Alcohol) Blends*", **I. Katime**, J.R. Quintana, L.C. Cesteros y M.C. Peleteiro
b) "*Preferential and Total Sorption in the System Methacrylic Polymer/Toluene + n-butyl Chloride*", **I. Katime**, M.B. Huglin y P.M. Sasia
c) "*Determination of Kinetic Constants for Bulk Polymerization of Octil Acrylate at Different Temperatures*", **I. Katime** y T. Nuñoz

63) **XVIII Congreso Latinoamericano de Química**, Santiago (Chile) Enero 1988:

"*Estudio sobre la cristalización y fusión de las mezclas de polifluoruro de vinilideno/Poliitaconato de Bencilo*", **I. Katime**

64) **Laser Technologies in Industry**, Oporto (Portugal) Junio 1988:

a) "*Interaction Parameters of Polymer-Polymer Systems by Laser Light Scattering*", **I. Katime**, N. González, M. Rodríguez y J.R. Quintana
b) "*Spinodal Determination in Polymer Oligomer Mixture in Solution by Laser Light Scattering*". L. C. Cesteros e **I. Katime**

65) **7th IUPAC Conference on Organic Synthesis**, Nancy (Francia) Julio 1988:

"*Synthesis of mono-2-phenoxyetylitaconate and mono-2-phenylethylitaconate*", E. Dominguez, **I. Katime**, C. Laborra y A. Linaza

66) **I Simposio Latinoamericano de Polímeros**, Porlamar (Venezuela) Julio 1988:

a) "*Cinética de cristalización y fusión de la mezcla POE/PVX*", I**. Katime**, F. Rabagliati y G. Sánchez
b) "*Comportamiento del PMMA en la mezcla binaria MIBK + Metanol*", **I. Katime**
c) "*Cinética de polimerización de monómeros vinílicos con sustituyentes laterales muy voluminosos*", **I. Katime** y G. Pérez

67) 1**988 Decus Europe Symposium**, Cannes (Francia) Septiembre 1988:

a) "*A Polymeric and Ceramic Materials Study*", J.J. Vazquez Rubio e **I. Katime**

68) **XXII Reunión Bienal de la Real Sociedad Española de Química**, Murcia Septiembre 1988:

a) "*Miscibilidad en mezclas de polímeros: POE/PNVK*", **I. Katime**, M. Rodriguez, Y. Vázquez, C. Cesteros y C. Ramiro Vera
b) "Estudio calorimétrico de la fusión y cristalización en la mezcla POE/PVP", C. Cesteros, A. Fernández Villa, N. González, J.R. Quintana e **I. Katime**
c) "*Estudio calorimétrico, termomecánico y espectroscópico de distintas mezclas de polietileno y polipropileno*". M. Rego, J.A. González, F. Palomares, M.C., Peleteiro e **I. Katime**
d) "*Solvatación preferencial en sistemas del tipo polímero 1/polímero 2/disolvente*", P. Sasia, I. Iragorri e **I. Katime**
e) "*Síntesis y degradación del copolímero polimetacrilato de etilo/polivinil butil eter*", R. Valenciano, C.. Merodio, J.A. González Orozco, M. Anasagasti e **I. Katime**
f) "*Estudio físico-químico del comportamiento de la mezcla binaria polivinilpirrolidona + polimonoitaconato de metilo*". M. Anasagasti, I. Rivas Pérez de Viñaspre, R. Valenciano e **I. Katime**
g) "*Solvatación preferencial del PEMA e mezclas disolvente/precipitante*", J.M. Teijón, M.D. Blanco e **I. Katime**
h) "*Empleo de las bases de datos inteligentes para la selección de materiales poliméricos y cerámicos*", J.J. Vázquez, P. Sasia, F. Palomares, L. Matallanes, E. Ruiz de Gordoa e **I. Katime**

69) **III Congreso Luso-Español de Bioquímica** Santiago de Compostela Septiembre 1988:

a) "*Asociación en sistemas micelares sal biliar/agua*", J.L. Allende e **I. Katime**
b) "*Comportamiento hidrodinámico de macromoléculas en mezclas binarias agua/colorante*", I. Busturia, J.A. Onrubia, M.D. Blanco e I. Katime
c) "*Influencia de la interacción lisozima-colorante en la estructura proteica*". M.D. Blanco, J.A. Onrubia, J.M. Teijón e **I. Katime**
d) "*Comportamiento termodinámico del poli(metacrilato de etilo) en la mezcla binaria acetato de etilo/iso-propanol*", C. Ruiz, M.D. Blanco, J.A. Onrubia, J.M. Teijón e **I. Katime**

70) **VII Congreso Colombiano de Química Bucaramanga (Colombia)** Mayo 1989:

"*Determinación de magnitudes termodinámicas por difusión de luz a laser*" (Inagural Conference)

71) **I Reunión Nacional de Materiales Polímeros** Valencia Junio 1989:

a) "*Estudio de algunas propiedades de los complejos de Polivinilpirrolidona (PVP) con otros polímeros*", M. Anasagasti, I. Rivas, R. Valenciano e **I. Katime**
b) "*Morfología Supramolecular de mezclas de polietilenos*", J.I. Iragorri, U.W. Gedde e **I. Katime**
c) "*Comportamiento del Poli(N-vinil carbazol) en mezclas binarias de THF/Oligómeros del Polietilenglicol*", L.C. Cesteros, Y. Vázquez e **I. Katime**
d) "*Estudio viscosimétrico del sistema Poli(N-vinil carbazol) en diferentes mezclas binarias THF/Polietilenglicol*", L.C. Cesteros, N. Rabanal e **I. Katime**
e) "*Estudio de la formación de complejos entre polímeros y metales en diferentes medios acuosos*". R. Valenciano, E. Díaz, S. Anasagasti, J. Veguilas e **I. Katime**

72) **II Coloquio Nacional de Polímeros** Bucaramanga (Colombia) (Julio 1989):

"*Estudio cinético de la polimerización de monómeros de origen no fósil*"

73) **I Congreso de Ingeniería Ambiental. PROMA 89** Bilbao Noviembre 1989:

"*Polímeros fotobiodegradables: Una solución ecológica al problema de los residuos plásticos*". **I. Katime**, R. Valenciano y L.C. Cesteros

74) **XVIII Jornadas Chilenas de Química** Santiago (Chile) 27 Noviembre-2 Diciembre 1989):

"*Cinética de la polimerización de monoitaconatos de alquilo por análisis térmico diferencial*".

75) **XXI Jornadas del CED/AID** Barcelona Marzo 1990:

"*Estudio termodinámico del procso de micelización del copolímero en bloque poliestireno-poli(etileno/propileno) en n-dodecano*", **I. Katime**, J.R. Quintana y M. Villacampa

76) **8th International Symposium on Surfactants in Solution** Gainesville, Florida (U.S.A.) Junio 1990:

"*Thermodynamics of Micellization of Polystyrene-b-Poly(ethylene/propylene) in Organic Solvents*", **I. Katime**, M. Villacampa y J.R. Quintana

77) **33rd IUPAC International Symposium on Macromolecules (Macro 90)**, Montreal (Canadá) 8-13 Julio 1990:

"*Interactions of Polystyrene with n-alkanes in Benzene Solution*", **I. Katime**, J.R. Quintana, L.C. Cesteros y M.C. Peleteiro

78) **XVII Congreso Nacional de Bioquímica (SEB 90),** Oviedo 22-25 Julio 1990:

a) "*Estudio de la alteración de la hexoquinasa por acción del mercurio*", R.M. Olmo, M.D. Blanco, R.M. Trido, C. Ruiz e **I. Katime**
b) "*Desnaturalización de la lisozima inducida por colorantes*", J. Onrubia, M.D. Blanco, J.M. Teijón e **I. Katime**

79) **XXIII Reunión Bienal de la Real Sociedad Española de Química,** Salamanca 23-28 Septiembre 1990:

a) "*Comportamiento delpolimetacrilato de etilo(3)(PEMA) en las mezclas binarias polares THF(1)/n-alcanos(2)*", C.M. Ruiz, R.M. Trigo, J.M. Teijón e **I. Katime**
b) "*Solvatación preferencial y total del PEMA(3) en acetato de etilo(1)/alcoholes(2)*", **I. Katime**, M.D. Blanco, C. Uriel y J.M. Teijón
c) "*Determinación de magnitudes de mezcla y exceso en el sistema oligómeros del polietilenglicol/acetonitrilo*", **I. Katime**, L.C. Cesteros, N. González y P. Gutiérrez Cabañas
d) "*Influencia del disolvente en la micelización de copolímeros de bloque". I. Aspectos termodinámicos del fenómeno*", J.R. Quintana, M. Villacampa, C. Ramiro Vera e **I. Katime**

80) **II Simposio Latinoamericano de Polímeros (SLAP 90)**, Guadalajara (México) 7-12 Octubre 1990:

a) "*Fusión y cristalización de mezclas de polímeros*"
b) "*Comportamiento térmico del 4-vinil bifenilo en el intervalo de temperatura 463-533 K*", T. Nuño e **I. Katime**
c) "*Estudio termodinámico de sistemas ternarios del tipo polímero/ oligómero/disolvente*", L.C. Cesteros, Y. Vazquez, N. Rabanal e **I. Katime**

81) **II Reunión Nacional de Materiales Polímeros**, Valencia 24-27 Junio 1991:

a) "*Cinética de polimerización en bloque de monoitaconatos aromáticos: monofenil, monobencil y mono-2-feniletil itaconato*", A. Madoz, **I. Katime** y J.L. Velada
b) "*Estudio termodinámico del copolímero en bloque PS-b-PI hidrogenado en parafinas normales*", J.R. Quintana, M. Villacampa, M. Muñoz, A. Andrio e **I. Katime**
c) "*Estudio estructural de las micelas del copolímero PS-b-PI hidrogenado en parafinas normales*", J.R. Quintana, A. Andrio, M. Muñoz, M. Villacampa e **I. Katime**

d) "*Estudio de miscibilidad en la mezcla binaria: Polivinil pirrolidona, polivinil formal*", C. Cesteros, J.R. Isasi e **I. Katime**
e) "*Complejos de poli(monometilitaconato) con poli(vinil piridinas*)", J.L. Velada, J.A. González Orozco, C. Cesteros e **I. Katime**
f) "*Estudios de complejos polímero/metal*", E. Díaz, R. Valenciano, M. Anasagasti e **I. Katime**

82) **VIII Congreso Colombiano de Química**, Santiago de Cali (Colombia) 25-28 Septiembre 1991:

"*Síntesis y propiedades de polímeros fotobiodegradables*". **I. Katime** y A. Ramirez

83) **III Reunión Nacional de Polímeros**, Bucaramanga (Colombia) 2-4 Octubre 1991:

a) "*Síntesis y propiedades de algunos derivados del ácido itacónico*"
b) "*Polímeros fotobiodegradables*", **I. Katime**

84) **I Simposio Iberoamericano de Polímeros**, Vigo (Galicia) 28 Junio-3 Julio 1992:

a) "*Síntesis y caracterización de polimono y polidiitaconatos de fenilalquilo*", A. Madoz, I. Vadillo e **I. Katime**
b) "*Comportamiento hidrodinámico de las micelas formadas por copolímeros de bloques en diferentes n-alcanos*", M. Villacampa, J.R. Quintana, R. Salazar e **I. Katime**
c) "*Estudio de mezclas y formación de complejos entre la poli(2-vinil piridina) y el poli(monoitaconato de etilo)*", J.L. Velada, L.C. Cesteros e **I. Katime**
d) "*Miscibilidad de polivinil piridinas con poli(acetato de vinilo), poli(alcohol vinílico) y sus copolímeros*", J.R. Isasi, L.C. Cesteros e **I. Katime**
e) "*Diferencias en el comportamiento del PEMA en las mezclas binarias THF(1)/n-propanol(2) a distintas temperaturas*", C.M. Ruiz, J.M. del Socorro, J.M. Teijón e **I. Katime**
f) "*Análisis de compatibilidad de los sistemas poliméricos PEO/Poli(isobutil metacrilato) y PEO/Poli(terbutil metacrilato) mediante análisis térmico diferencial*", **I. Katime**, A. Cadenato y A. Ramírez
g) "*Estudio de las mezclas entre polimetacrilatos hidroxilados y polivinilpiridinas*", L.C. Cesteros, E. Meaurio e **I. Katime**
h) "*Estructura de las micelas formadas por copolímeros dibloques A-B en disolventes selectivos de A y de B*", **I. Katime**, M. Villacampa, J. Tolosa y J.R. Quintana

85) **XXIV Reunión Bienal Real Sociedad Española de Química**, Málaga 21-25 Septiembre 1992:

"*Síntesis y caracterización en estado sólido de distintos complejos polímero/metal*", E. Díaz, R. Valenciano, M. Anasagasti e **I. Katime**

86) **III Simposio Latinoamericano de Polímeros (SLAP 92)**, Caracas (Venezuela) 28 Septiembre-1 Octubre 1992:

"*Síntesis, caracterización y cinética de polimerización de algunos derivados del ácido itacónico"*, **I. Katime**, A. Madoz y J.L. Velada

87) **IV Conferencia Iberoamericana de Ciencia y Tecnología para el Desarrollo del Programa CYTED**, Quito (Ecuador) 22-24 Abril 1993.

88) **1° Encontro de Química Física**, Lisboa (Portugal) 2-4 Junio 1993:

"*The kinetics of bulk polymerization of itaconic acid derivatives. III. Mono-2-phenylphenyl and mono-4-phenylphenyl itaconates*", **I. Katime**, A. Madoz y J.L. Velada

89) Curso/Simposium "**Propiedades, Caracterización y Aplicaciones de los Sistemas Micelares**", la Universidad de Alcalá de Henares 4-7 Julio 1993:

a) "*Estructura y Termodinámica de Sistemas Micelares Poliméricos*", **I. Katime**

b) "*Aplicación de la difusión de luz al estudio de la micelización de copolímeros de bloques en cetonas*", M. Villacampa, J.R. Quintana e **I. Katime**

90) **XX Aniversario del Grupo de Polímeros ULA y VI Coloquio Nacional de Polímeros** Mérida (Venezuela) 26-30 Septiembre 1993:

"*Influencia del disolvente en la micelización de copolímeros dibloques*"

91) **XVIII Congreso Nacional de Bioquímica (SEB93)** San Sebastián 28 Septiembre-2 Octubre 1993:

a) "*Validación estadística de los métodos viscosimétricos de identificación de macromoleculas*", I. Busturia, C. Gómez, M. Lozano e **I. Katime**
b) "*Influencia del AICI en la estructura y función de la lisozima*", J. Socorro, R. Olmo, I. Busturia, **I. Katime** y J.M. Teijón

92) **VI Jornadas de Análisis Instrumental** Barcelona l 20-22 Octubre:

"*Análisis cromatográfico de la micelización de copolímeros dibloques en disolventes orgánicos*", **I. Katime**, M. Villacampa y J.R. Quintana

93) **POLYMEX-93** Cancún (Quintana Roo, México) 1-5 Noviembre 1993:

a) "*An infrared study of hydrogen bonding in poly(4-vinyl pyridine)/poly(vinyl acetate-co-vinyl alcohol) blends*", L.C. Cesteros, J.R. Isasi, A. Madoz e **I. Katime**
b) "*Polymer-polymer complexation between poly(mono-n-alkyl itaconates) and poly(dimethyl acetamide)*", L.C. Cesteros, E. Meaurio, J. Velada e **I. Katime**
c) "*Structure and Thermodynamics of Kraton 1701 Micelles in Polystyrene Selective Solvents*", **I. Katime**, M. Villacampa e J.R. Quintana

94) **ANTEC94** San Francisco (U.S.A.) 1-5 Mayo 1994:

"*Effect of pH on the mechanical properties of functionalized polymers prepared by emulsion polymerization*", P.J. Hernández, E. Mendizábal, J.E, Puig, M. Hidalgo e **I. Katime**

95) **IX Congreso Nacional de Química** Santa Marta (Colombia) 1-5 Junio 1994:

"*Micelización de copolímeros de bloque*", **I. Katime**

96) **Propiedades Mecánicas de Sólidos** Vitoria 29 Junio-1 Julio 1994:

"*Propiedades mecano-dinámicas de copolímeros estructurados poliestireno/ Acrilato de butilo/Acido itacónico*", J. Hernández, E. Mendizábal, J. Puig e **I. Katime**

97) **11th European Symposium on Polymer Spectroscopy**, Valladolid 20-22 Julio 1994:

"*FTIR Study of Hydrogen Bonding and Phase behaviour in Poly(vinylpyridines)/ Poly(ethylene-co-vinyl alcohol) blends*", J.R. Isasi, L.C. Cesteros e **I. Katime**

98) **2nd Ibero-American Polymer Symposium/4th Latin-American Polymer Symposium/6th International Macromolecular Colloquium**, Gramado (Brasil) 4-8 Septiembre 1994:

"*Structure and Thermodynamics of Polystyrene-block-Poly(Ethylene/propylene) Micelles in Selective Solvents*", **I. Katime**, J.R. Quintana y M. Villacampa

99) **VII Congreso Nacional de la Sociedad Polimérica de Mexico**, Cancún (Quintana Roo, México) 25-29 Septiembre 1994:

"*Síntesis y caracterización de hidrogeles de acrilamida-Monoitaconato de 2-etoxietilo*", D. Espinoza, A. Castañeda, J.E. Puig, E. Mendizábal, **I. Katime** y J.L. Velada

100) **Eurocoat94**, Sitges 27-29 Septiembre 1994:

"*Estudio de reacciones de curado por calorimetría diferencial de barrido aplicado al campo de los recubrimientos*", **I. Katime**

101) **10 años del CYTED**, Cancún (Quintana Roo, México) 6-9 Octubre 1994:

a) "*Propiedades de hinchamiento y liberación controlada de fármacos empleando hidrogeles polímeros biocompatibles*", **I. Katime**, E. Mendizábal, J. Puig, J.M. Teijón, D. Blanco y M. Moya
b) "*Estudio de la influencia del disolvente en los procesos de micelización de copolímeros dibloques*", **I. Katime**, M. Villacampa y J.R. Quintana
c) "*Estudio de las propiedades mecano-dinámicas de copolímeros estructurados Poliestireno/acrilato de butilo/ácido itacónico*", **I. Katime**, J. Hernández, E. Mendizabal e J.E. Puig
d) "*Síntesis y caracterización de nuevos polímeros derivados del ácido itacónico. Estudio de sus propiedades térmicas*", H. Estibaliz, J.L. Velada, L.C. Cesteros, E. Meaurio e **I. Katime**
e) "*Estudio de hinchamiento de hidrogeles de Acrilamida/Monoitaconato de metilo*", D. Espinoza, A. Castañeda, J.E. Puig, E. Mendizábal, **I. Katime** y J.L. Velada

102) **ANTEC95**, Boston (USA) 8-12 Mayo 1995:

a) "I*mproved water-absorbing acrylamide hidrogels with itaconic esters*", E. Mendizábal, D. Espinoza, A. Castañeda, J.E. Puig, **I. Katime** y J.L. Velada
b) "*Mechanical properties of styrene/butyl acrylate/itaconic acid terpolymers: stuctured vs. unstructured materials*", J. Hernández, J.E. Puig, V. Soto, E. Mendizábal e **I. Katime**

103) **9th International Conference on Partitioning in Aqueous two-phase Systems**, Zaragoza 4-9 Junio 1995:

"*5-Fluorouracil release from Poly(acrylamide-co-monopropyl Itaconate) Hydrogels*", M.D. Blanco, O. García, R. Olmo, J.M. Teijón e **I. Katime**

104) **VI Conferencia Iberoamericana de Ciencia y Tecnología para el Desarrollo del Programa CYTED**, Cartagena de Indias (Colombia) 15-17 Junio 1995.

105) **IV International Conference on Advanced Materials**, Cancún (Quintana Roo, México) 27 Agosto-1 Septiembre 1995:

a) "*Functionalized core-shell polymers prepared by emulsion or microemulsion polymerization*", J.E. Puig, E. Mendizábal, A. Aguir, J. Hernández, **I. Katime** y J.M. Dóminguez
b) "*Superabsorbent Hydrogels prepared by inverse microemulsion and solution two-stage process*", J.E. Puig, E. Mendizábal, J.C. Sánchez-Díaz, V.M. Castaño, **I. Katime** y E. Vallés

106) **VIII Congreso Nacional de Polímeros**, Guanaguato (México) 6-9 Noviembre 1995:

a) "*Modelado de la polimerización en microemulsión*", J. Flores, J.E. Puig, F. López-Serrano, J. Alvarez, **I. Katime** y E. Mendizábal
b) "*Síntesis de hidrogeles superabsorbentes de poliacrilamida vía polimerización en microemulsión inversa*", J.C. Sánchez-Díaz, L.J. Puig, E. Mendizábal, J.E. Puig, V.M. Castaño, M. Villacampa e **I. Katime**

107) **XLV Convención Anual de ASOVAC y VII Coloquio Nacional de Polímeros**, Caracas (Venezuela) 19-24 Noviembre 1995:

a) "*Síntesis de derivados monoitaconatos y sus hidrogeles: Serie aromática*", M. Ramírez, G. Perdomo e **I. Katime**
b) "*Síntesis de derivados monoitaconatos y sus hidrogeles: Serie alifática*", W. Velásquez, M. Hugo, **I. Katime** y G. Perdomo

108) **Fourth Pacific Polymer Conference**, Hawai del 12 al 16 de Diciembre de 1995, donde presenté la siguiente Comunicación:

> "*A mathematical model for microemulsion polymerization*", E. Mendizábal, J. Flores, J.E. Puig, F. López Serrano, J. Alvarez e **I. Katime**

109) **Premier Colloque Franco-Mexicain**, Grenoble (Francia) 1995:

a) "*Synthesis and characterization of polyacrylamide superabsorbent hydrogels*", J.E. Puig, J.C. Sánchez Díaz, E. Mendizábal, **I. Katime** y V.M. Castaño
b) "*Modelling of Microemulsion polymerization*", J. Flores, F. López-Serrano, J. Alvarez, J.E. Puig, **I. Katime** y E. Mendizábal

110) **XXII Congreso Latinoamericano de Química y XXI Jornadas Chilenas de Química**, Concepción (Chile) del 7 al 12 de Enero de 1996:

a) "*Síntesis y propiedades de hidrogeles poliméricos*", **I. Katime**, R. Novoa, E. Díaz de Apodaca, E. Meaurio, E. Mendizábal y J. Puig
b) "*Influencia de la selectividad del disolvente en los parámetros micelares y estructurales de los copolímeros de bloques*", **I. Katime**, J.R. Quintana, M.D. Jáñez y J.L. Velada
c) "*Mezclas y complejos entre el poli(monoitaconato de etilo) y polibases*", **I. Katime**, C. Cesteros, E. Meaurio, J.L. Velada y A. Pardo

111) **X Congreso Colombiano de Química**, Medellín (Colombia) 17-20 Abril 1996:

"*Aplicaciones de la calorimetría diferencial de barrido en el estudio de las cinéticas de curado y de polimerización en bloque*", **I. Katime**

112) **II Jornadas sobre Calorimetría y Análisis Térmico en Polímeros**, Madrid del 20 al 22 de Mayo de 1996, donde presenté la siguiente Comunicación Plenaria:

"*Aplicaciones de la calorimetría diferencial de barrido en el estudio de las cinéticas de curado*", **I. Katime**

y los dos posters:

a) "*Estudio calorimétrico de la degradación térmica de diferentes derivados monosustituidos del ácido itacónico*", J.L. Velada, E. Meaurio, L.C. Cesteros e **I. Katime**
b) "*Estudio de mezclas y complejos entre polimonoitaconatos de n-alquilo y poli(vinil amidas) mediante DSC, TG y FTIR*", E. Meaurio, J.L. Velada, L.C. Cesteros e **I. Katime**

113) **IV Jornadas Técnicas Nacionales de Recubrimiento de Superficies**, San Sebastián 4-5 Junio 1996:

"*Aplicación de la calorimetría diferencial en el estudio de la cinética de curado*", **I. Katime**

114) **V Congreso Nacional de Propiedades Mecánicas de Sólidos**, Barcelona 3-5 Julio 1996:

a) "*Propiedades mecano-dinámicas de hidrogeles poliméricos*", R. Novoa, E. Díaz de Apodaca, I.O. Barcellos, A. Nunes, J. Puig, E. Mendizábal e **I. Katime**
b) "*Gelificación física de un copolímero tribloque de poliestireno-b-poli(etileno/propileno) en un disolvente selectivo del bloque central*", E. Díaz, J.R. Quintana e **I. Katime**

115) **12th European Symposium on Polymer Spectroscopy**, Lyon (Francia) 8-10 Julio 1996:

a) "*Study of blends and complexes in systems poly(mono n-alkyl itaconate)/Poly(N,N-dimethyl acrylamide)*", E. Meaurio, J.L. Velada, R. Novoa, E. Díaz de Apodaca, L.C. Cesteros e **I. Katime**
b) "*An infrared study of poly(mono-n-alkyl itaconates)/poly(vinyl pyridines) blends effect of the temperature*", J.L. Velada, E. Meaurio, L.C. Cesteros e **I. Katime**

116) **International Materials Research Congress**, Cancun (México) 1-5 Septiembre 1996:

a) "*Electrostatic Cage Effect in Microemulsion Polymerization*", A. Pardo, **I. Katime**, E. Mendizábal y J. Puig
b) "*Modelling of Microemulsion Polymerization*", J. Puig, E. Mendizábal e **I. Katime**

117) **Congreso Internacional de Biomateriales (BIOMAT97)**, La Habana (Cuba) 2-4 Mayo 1997:

a) "*Estudio de la liberación de medicamentos de uso ocular utilizando hidrogeles de acrilamida con ésteres del ácido itacónico*", M. Iñiguez, J. Cortez, V. Chavarín, J.E. Puig, E. Mendizábal e **I. Katime**
b) "*Hidrogeles superabsorbentes con propiedades mecánicas controladas*", D. Espiñoza, J.C. Sánchez, L.J. Puig, E. Mendizábal, J.E. Puig, V.M. Castaño e **I. Katime**
c) "*Liberación controlada de fármacos utilizando hidrogeles biocompatibles*", R. Novoa, E. Díaz e **I. Katime**
d) "*Estudio del porcentaje de comonómero y de entrecruzante en las propiedades mecano-dinámicas de hidrogeles polímeros*", E. Díaz, R. Novoa e **I. Katime**

118) **III Congreso Europeo de Fluidización,** Bilbao (España) 8-11 Septiembre 1997:

"*Caracterización de partículas en copolímeros de poli(acrilamida-co-acrilato sódico) obtenidos por emulsión inversa*", I. Inchausti, M.D. Jáñez, P.M. Sasía e **I. Katime**

119) **1er Congreso Internacional de Materiales Poliméricos y V Reunión del GEP**, Terrassa (España) 8-10 Septiembre 1997:

a) "*Polimerización en microemulsión de acetato de vinilo en sistemas ternarios*", J.E. Puig, E. Mendizábal, R.G. López, R.D. Peralta e **I. Katime**
b) "*Estudio de la liberación de medicamentos de uso oftálmico mediante hidrogeles*", E. Mendizábal, J.E. Puig, M. Iñiguez e **I. Katime**

y los siguientes posters:

a) "*Efecto de un electrolito en la polimerización en microemulsión de estireno*", J. Arellano, I. Jiménez, E. Mendizábal, J. Puig e **I. Katime**
b) "*Síntesis, caracterización y estudio de la degradación térmica de nuevos polímeros derivados del ácido itacónico*", E. Hernáez, A. García, L.C. Cesteros e **I. Katime**
c) "*Formulaciones fotocurables en base acuosa para su aplicación en serigrafía industrial*", I. Jiménez, M. D. Jáñez, A. Butrón, R. Novoa e **I. Katime**
d) "*Termodinámica de la micelización de copolímeros dibloque en disolventes no selectivos*", M.D. Jáñez, I. Inchausti, E. Hernáez, J.R. Quintana e **I. Katime**
e) "*Cinética de curado de resinas poliéster*", A. Butrón, J. Arellano, E. Díaz de Apodaca, B. Elexpuru e **I. Katime**
f) "*Síntesis y caracterización de copolímeros de acrilato de sodio obtenidos a partir de emulsión directa e inversa*", I. Inchausti, P.M. Sasia, S. Nuño Donlucas, J. Puig, E. Mendizábal e **I. Katime**

g) "*Influencia del peso molecular en las propiedades mecánicas de un copolímero tribloque*", E. Díaz, **I. Katime** y J.R. Quintana

120) **The Fifth Chemical Congress of North America**, Cancún (Quintana Roo, México) 11-15 Noviembre 1997:

"*Modeling of Microemulsion Polymerization: Effect of Monomer Type*", J.E. Puig, E, Mendizábal, J. Flores, J. Alvarez e **I. Katime**

121) **Macromoléculas97**, La Habana (Cuba) 1-5 Diciembre 1997:

"*Liberación controlada de farmacos utilizando hidrogeles biocompatibles*", **I. Katime,** R. Novoa, H. Díaz de Apodaca, E. Mendizábal y J. Puig

122) **XIX Encuentro Nacional de la AMIDIQ (Academia Mexicana de Investigación y Docencia en Ingeniería Química)**, Itxapa (México) Mayo 1998:

"Liberación de principios activos a partir de hidrogeles de poli(acrilamida-ésteres del ácido itacónico) con diferente geometría", E. Mendizábal, J.E. Puig, M. Iñiguez e **I. Katime**

123) **21ª Reuniao Anual de la Sociedade Brasileira de Química**, Poços de Caldas, 25-28 Mayo 1998:

a) "*Influencia do pH na cinetica de intumescimento de hidrogeis de PHEMA*", M. Lucas, **I. Katime** e I.O. Barcellos
b) "*Influencia do reticulante na cinetica de intumescimento e nas propriedades mecanicas dos hidrogeis de PHEMA*", I.O. Barcellos, **I. Katime** y A.T. Nunes Pires
c) "*Comparison of some physical properties of poly(2-hydroxyethyl methacrylate) and copolymers synthesized in bulk and solution*", I.O. Barcellos, **I. Katime** y A.T. Nunes Pires

124) **12th International Symposium on Surfactants in Solution**, Estocolmo (Suecia) 7-11 Junio 1998:

"*Unusual polymerization of vinyl acetate in microemulsion media*", J.E. Puig, E. Mendizábal, R.G. López, R.D. Peralta e **I. Katime**

125) **VII Congreso Nacional de Propiedades Mecánicas de Sólidos**, Badajoz (España) 10-12 Junio 1998:

a) "*Propiedades mecánicas de la mezcla polióxido de etileno-copolímero de etileno ácido acrílico*", S. Nuño Donlucas, G. García Quirós, E. Mendizábal, J.E. Puig, L. Sanz e **I. Katime**
b) "*Propiedades mecánicas de hidrogeles de copolímeros de ácido acrílico y metacrilato de metilo*", E. Díaz de Apodaca, R. M. Novoa, E. Mendizábal, J.E. Puig e **I. Katime**

c) "*Gelificación física termoreversible de copolímeros tribloque de PS-b-poli(etileno/butileno)-b-PS en un disolvente selectivo del bloque central y diferentes mezclas binarias*", E. Hernáez, I. Inchausti, J.R. Quintana, L. Sanz e **I. Katime**
d) "*Propiedades mecánicas de la mezcla de polivinil pirrolidona-poli(etileno-co-ácido acrílico)*", S. Nuño Donlucas, C. Sáiz Martínez, J.E. Puig, E. Mendizábal e **I. Katime**

126) **13th European Symposium on Polymer Spectroscopy** (**ESOPS13)**, Lancaster (U.K.) 20-23 Julio 1998:

"*Study of the blends of Poly(n,n-dimethylacrylamide) with copolymers of vinyl alcohol: Effect of the comonomer*", **I. Katime**, L.G. Parada, E. Meaurio, L.C. Cesteros y J.L. Velada

127) **IV International ANQUE Chemistry Conference. "Food Chemistry and Technology**", Lugo (España) 8-10 Julio 1998:

a) "*Liberación de farmacos desde hidrogeles de ácido acrilico/metacrilato de metilo*", R. M. Novoa, E. Díaz de Apodaca, E. Mendizábal, J.E. Puig y **I. Katime**
b) "*Determinacion directa de la concentración de acrilamida residual en emulsiones inversas empleando la cromatografía líquida de alta resolución*", I. Inchausti, E. Hernáez, P. M. Sasia y **I. Katime**

128) **International Materials Research Congress**, Cancun (México) 29 Agosto-2 Septiembre:

a) "Synthesis of core-shell polymers with improved mechanical properties by microemulsion polymerization", M. Rabelero, A. Aguilar, E. Mendizábal, **I. Katime** y J.E. Puig
b) "Synthesis and characterization of hydrogels of acrylamide-itaconic acid and it´s utility for the sterification reactions", J. Sánchez-Díaz, I.A. Cortez, E. Medizábal, **I. Katime** y J.E. Puig

129) **XI Congreso Nacional de Química y I Feria Internacional de Química**, B/manga (Colombia) 2-6 Septiembre 1998:

a) "*Liberación de fármacos empleando hidrogeles de ácido acrílico/metacrilato de metilo*", **I. Katime**, R.M. Novoa, E. Díaz de Apodaca, E. Mendizábal, J.E. Puig y M. Duarte
b) "*Gelificación física termoreversible de copolímeros tribloques de poliestireno-b-poli(etileno/nutileno)-b-poliestireno en n-octano y en mezclas binarias*", **I. Katime**, E. Hernáez, J.R. Quintana y L. Bueno
c) "*Influencia del efecto del porcentaje de comonómero y de entrecruzamiento en las propiedades mecano-dinámicas de diversos hidrogeles poliméricos*", **I. Katime**, E. Díaz de Apodaca, R. Novoa, E. Mendizábal y J.E. Puig

130) **XI Congreso Nacional de Polímeros**, Ciudad Madero (México) 23-27 Noviembre 1998:

"Síntesis y caracterización de hidrogeles de poliacrilamida con mejores propiedades mecánicas", J.E. Puig, J.C. Sánchez Díaz, E. Mendizábal, **I. Katime** y V. Castaño

131) **Eurocoat98**, Sitges 2-5 Noviembre 1998:

"*Seguimiento del curado de sistema de recubrimiento epoxi por DSC*", A. Butrón e **I. Katime**

132) **V International Meeting on "Solid, Liquid and Gaseous Wastes. Their Best Destination (III)**", Puerto de la Cruz (Tenerife) 9-11 Diciembre 1998:

"Polimerización por emulsión inversa de copolímeros de poli(acrilamida-co-acrilato sódico", **I. Katime**, I. Inchausti y P.M. Sasia

133) **XI Congreso Argentino de Fisico-Química y I Congreso de Fisico-química del MERCOSUR**, Santa Fé (Argentina) 19-23 Abril 1999:

"*Estudio de la liberación controlada de fenobarbital en hidrogeles de PHEMA*", O. Barcellos, **I. Katime** y A.T.N. Pires

134) **VI Reunión del GEP (RSEQ, RSEF)**, San Sebastián (España) 7-9 Septiembre 1999:

a) "*Floculantes poliméricos obtenidos por emulsión inversa: Síntesis y caracterización*", I. Inchausti, E. Hernaez, I. Jiménez, P.M. Sasia y **I. Katime**
b) "Curado de monómeros epoxídicos mediante radiación ultravioleta", I. Jiménez, I. Inchausti y **I. Katime**
c) "*Síntesis de poli(acetato de vinilo) lineal mediante polimerización en microemulsión*", N. Sosa, R.G. López, R.D. Peralta, E. Mendizábal, J.E. Puig y **I. Katime**
d) "*Cinética de polimerización de resinas epoxi*", M. Renteria, A. Butrón y **I. Katime**
e) "Síntesis, cinética de hinchamiento y liberación de aminofilina y propiedades mecánicas de hidrogeles de poli(N-isopropilacrilamida-co-ácido itacónico)", N. Valderruten, J.R. Quintana y **I. Katime**
f) "*Miscibilidad en mezclas binarias de polietilen-co-ácido acrílico y poli(2-etil 2 oxazolina)*", S. Nuño, E. Mendizábal, J. Puig y **I. Katime**

135) **XX Congreso Colombiano de Ingeniería Química**, Santiago de Cali (Colombia) 2-6 Agosto 1999:

a) "Micelización de copolímeros de bloque en líquidos orgánicos. Estudio estructural", R. Salazar, J.R. Quintana y **I. Katime**
b)"Micelización en sistemas copolímeros de bloque/líquidos orgánicos. Difusión de luz y viscosimetría", R. Salazar, J.R. Quintana y **I. Katime**
c) "Desarrollo de Materiales Poliméricos para la Liberación Controlada de Agua y Nutrientes para Suelos de Cultivo", J.E. Perilla, D. Quintero, J. Penagos e **I. Katime**

136) **International Material Research Congress (Cancun99)**, Cancun (México) 29 Agosto-2 Septiembre 999:

"Synthesis and Chracterization of Hydrogels of Acrylamide-Itaconic Acid and its utility for the sterification Reactions", J.C. Sánchez Díaz, J. Cortez, E. Mendizábal, **I. Katime** y J.E. Puig

137) **IX Coloquio Nacional de Polímeros**, Mérida (Venezuela) 12-15 Octubre 1999:

a) "*Gelificación de copolímeros tribloque de PS-b-poli(etileno/butileno)-b-PS en un disolvente selectivo del bloque central y en mezclas de disolventes selectivos inversos*", **I. Katime**, E. Hernáez y J.R. Quintana

b) "Obtención de hidrogeles polímeros de N-isopropilacrilamida y ácido itacónico. Estudio de las propiedades mecánicas y la liberación controlada de fármacos", **I. Katime**, N. Valderruten y J.R. Quintana

c) "Síntesis y caracterización de hidrogeles", E. Díaz de Apodaca, M. Ramírez e **I. Katime**

d) "Absorción de metales utilizando hidrogeles de ácido acrílico/ácido itacónico", E. Rodríguez, N. Monasterio, L. Sanz e **I. Katime**

138) **5º Congreso Brasileiro de Polímeros**, Aguas de Lindóia (Brasil) 7-10 Noviembre 1999:

"Influência do comonômero e do método de polimerizaçao na cinética de liberaçâo de Fenobarbitona a partir de hidrogeis", I.O. Barcellos, **I. Katime**, V.C. Soldi y A.T.N. Pires

139) **XXI Encuentro Nacional de la AMIDIQ**, Guanajuato, Gto.(México) 23-26 Mayo 2000:

a) "Miscibilidad y propiedades mecánicas de mezclas binarias de poli(etileno-co-ácido acrílico) y poli(2-etil-2-oxazolina)", S. Nuño Donlucas, L.C. Cesteros, **I. Katime** y J.E. Puig
b) "Síntesis y propiedades mecánicas de poliestireno polimerizado en sistemas micelares del tipo copolímero de bloque-disolvente", C.J. Arellano, S.M. Nuño Donlucas, **I. Katime** y A.J. Puig

140) **VI Congreso Nacional de Propiedades Mecánicas de Sólidos**, Segovia 23-30 Junio 2000:

a) "Propiedades mecánicas de hidrogeles de poli(N-isopropilacriulamida-co-ácido itacónico)", N. Valderruten, J.R. Quintana e **I. Katime**

b) "Estudio del comportamiento mecánico de geles físicos termoreversibles obtenidos a partir de copolímeros tribloques de PS-b-poli(etileno/butileno)-PS en un disolvente selectivo del bloque central", E. Hernáez, I. Inchausti, J.R. Quintana e **I. Katime**

141) "**I Congreso Instruccional y Divulgativo de Polímeros"**, Mérida (Venezuela) 25 Junio-1 Julio 2000:

a) "Materiales inteligentes de matriz orgánica", **I. Katime**
b) "Propiedades mecánicas y de hinchamiento y liberación de fármacos a partir de hidrogeles de poli(N-isopropilacrilamida)-co-(ácido itacónico), **I. Katime**, N.E. Valderruten y J.R. Quintana
c) "Floculantes catiónicos obtenidos por emulsión inversa", P.M. Sasia, I. Inchausti e **I. Katime**
d) "Estudio de absorción de metales y propiedades de hinchamiento de hidrogeles de poli(ácido acrílico-co-ácido itacónico)", **I. Katime** y E. Rodríguez
e) "Síntesis y caracterización de polielectrolitos de acrilamida y acrilato sódico obtenidos mediante microemulsión inversa", **I. Katime** y M. Renteria

142) **4ª Reunión del Grupo Especializado de Coloides e Interfases (GECI)**, Barcelona 3-5 Julio 2000:

"Síntesis, Caracterización y Rendimiento de Floculantes Catiónicos obtenidos por emulsión inversa", I. Inchausti, E. Hernáez, P.M. Sasia e **I. Katime**

143) **XXV Meeting of the Brazilian Society of Immunology**, Florianópolis, Santa Catarina (Brasil) 12-15 Agosto 2000:

"PHEMA and P(HEMA-co-MMI) hydrogels biocompatibility studies", S. Balsanelli, I.O. Barcellos, **I. Katime**, S. Gonçalves y H.H. da Silva Filho

144) **VI International Workshop on Non Crystalline Solids**, Bilbao (España) 13-15 Septiembre 2000:

"Thermoreversible gelation of Polystyrene-block-Poly(ethylene/butylene)-block-Polystyrene Triblock copolymers en n-octane", E. Hernáez, J.R. Quintana y **I. Katime**

145) **IV Spanish-Portuguese Conference on Controlled Drug Delivery**, Vitoria (España), 7-20 Septiembre 2000:

a) "Theophylline Release from Poly(acrylic Acid-co-n-Alkyl Methacrylate) Hydrogels", **I. Katime**, E. Díaz de Apodaca, R. Novoa y N. Valderruten

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a) "Acrylamide(A)/Methylmonoitaconate (MIM) hydrogel as a base for transdermal delivery of Bupivacaine and its evaluation in ear skin of rabbit", M.V. Bernardo, M.D. Blanco, J.M. del Socorro, **I. Katime** y J.M. Teijón

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35. Rosa María Novoa Fernández "*Liberación controlada de fármacos mediante el empleo de hidrogeles poliméricos*", Sobresaliente "Cum Laude", Bilbao, Enero 1999

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37. Amaia Butrón Janices "*Estudio de la cinética de polimerización de sistemas bicomponentes*", Sobresaliente "Cum Laude", Bilbao, Junio 1999

38. Sergio Nuño Donlucas "*Miscibilidad y propiedades térmicas y dinamo-mecánicas de mezclas de polímeros*", Sobresaliente "Cum Laude", Bilbao, Octubre 1999

39. Estibaliz Hernaéz Laviña *"Agregación de copolímeros tribloques en disolventes selectivos del bloque central"*. Sobresaliente "Cum Laude", Bilbao, Noviembre 2000

40. Miren Irune Inchausti Orbe "*Síntesis y caracterización de polímeros y copolímeros de acrilamida y cloruro de trimetilaminoetilacrilato en emulsión inversa*". Sobresaliente "Cum Laude", Bilbao, Noviembre 2000

41. Iñigo Jiménez Elorza "*Estudio y caracterización de sistemas fotocurados para aplicaciones serigráficas*", Sobresaliente "Cum Laude" Bilbao, Mayo 2001

42. Nora Valderruten Posso "*Nuevos materiales polímeros: Hidrogeles termosensibles y su aplicación en la liberación de fármacos*". Sobresaliente "Cum Laude", Bilbao, Octubre 2001

Written Books

1). "*Problemas de Química Superior*", Editorial Urmo, Bilbao 1978

2). "*Problemas de Química Física Macromolecular*", Editorial Del Castillo, Madrid 1979

3). "*A la búsqueda del Infinito (Modelos del Universo)*", Editorial Alhambra, Madrid 1980

4). "*Ejercicios y Problemas de Química Superior*", Editorial Tebar, Madrid 1984

5. "*Termodinámica de los procesos irreversibles. Reacciones oscilantes*", Editorial de la Universidad del País Vasco, Bilbao 1984

6. "*Scattering Properties; Light and X-Rays*" in "*Comprehensive Polymer Science*", Pergamon Press, Oxford 1989

7. "*Química Física Macromolecular*". Editorial de la Universidad del País Vasco, Bilbao 1994

8. "*Problemas de Química Física Macromolecular*". Editorial de la Universidad del País Vasco, Bilbao 1994

9. "*Light Scattering of Polymers*" in "*The Encyclopedia of Advanced Materials*", D. Bloor, R.J. Brook, M.C. Flemings and S. Mahajan (Editores), Pergamon Press, Oxford 1994

10. "*Hydrogen-bonded blends*", CRC Polymeric Materiales (1996)

11."*Block Copolymers: Micellization in Solution*", CRC Polymeric Materiales (1996)

12. "*Cromatografía líquida*": teoría y aplicaciones. **I. Katime**, O. Katime and D. Katime. Editorial de la Universidad de Guadalajara. Guadalajara. Jalisco (México) 1998

Book Translate and revisions

1. "*Termodinámica química*" P. Souchay, Editorial Toray, Madrid 1971

2)."*Introducción a la Química Macromolecular*" G. Champetier and L. Monnerie. Editorial Espasa Calpe, Madrid 1973

3. "*Principios básicos de espectroscopia*" R. Chang. Editorial A.C., Madrid 1977

4. "*Diccionario de minicomputadoras y microcomputadores*" de Philip E. Burton. Editorial Urmo, Bilbao 1984.

5. "*Fundamentos de Espectroscopia Molecular*" C.N. Banwell. Editorial Del Castillo, Madrid 1977

6. "*Química Física*" W.J. Moore (5ª edición), 2 vol.. Editorial Urmo. Bilbao 1977

Research Projects Leader

1)"*Aplicación del Laser a la difusión de luz por macromoléculas*" Fundación Juan March"(Ciencia Física), (1970).

2)"*Interacciones entre macromoléculas (sintéticas y biológicas) y moléculas normales o iones*". Comisión Asesora 1974-76

5)"*Plásticos no contaminantes. Estudio físico-químico de polímeros fotobiodegradables*". Diputación Foral de Vizcaya, 1985-87

6)"*Investigación de nuevos materiales de aplicación industrial: mezclas de polímeros comerciales*". Diputación Foral de Vizcaya, 1985-1988

7) "*Estudio de Nuevos Materiales Cerámicos y Poliméricos*". Diputación Foral de Vizcaya durante el periodo 1986-88.

8) "*Estudio de la miscibilidad de polímeros cristalinos y amorfos*". Universidad del País Vasco 1987

9) "*Estudio sobre nuevos materiales: Poliolefinas de interés comercial*". Gobierno Vasco 1988-89.

10) "*Poliestirenos modificados mediante elastómeros de baja insaturación*". Universidad del País Vasco 1988

11) "*Estudio de las interacciones entre proteinas y metales pesados*". Universidad del País Vasco 1988

12) "*Estudio de mezclas de polímeros*". Ayuda Integrada Hispano-francesa (Acción 245) durante el período 1989/90.

13) "*Estudio térmico, morfológico, cinético, estructural y mecánico de mezclas de PVP con poliitaconatos de alquilo*". Universidad del País Vasco 1989.

14) "*Termodinámica de micelización del copolímero en bloque poliestireno-b-poli(etileno/propileno) en sistemas binarios y ternarios*". Gobierno Vasco 1990-91

15) "*Relación entre estructura molecular de copolímeros en bloque y su comportamiento micelar en disolventes selectivos*". Universidad del País Vasco 1990

16) "*Estructura y propiedades de mezclas de polímeros orientados y copolímeros de polietileno y polipropileno*". Ayuda Integrada Hispano-Británica (**Acción 185A**) 1991/92.

17) "*Síntesis de hidrogeles poliméricos derivados del ácido itacónico*" CYTED (Project VIII.1) 1992-96.

18) "*Nuevos hidrogeles poliméricos e interpoliméricos y sus aplicaciones*" (Código del Proyecto: **MAT92-0464-CO2-01**). CICYT 1992-95.

19) "*Estudio y caracterización de interpolímeros*" (Código del Proyecto: UPV **039.310-E106/92**). Universidad del País Vasco 1991

20) "*Estudio de hidrogeles basados en monómeros derivados del ácido itacónico*". Universidad del País Vasco 1991-94

21) "*Investigación experimental y teórica de la influencia de sales en las interacciones y propiedades de hidrogeles y disoluciones poliméricas*" Ayuda Integrada Hispano-Británica (Acción 178B) 1994/95.

22) "*Effect of the monomer solubility in water on the microemulsion polymerisation*" (Código del Proyecto: **93.2076.MX**). Commission of the European Communities de la Unión Europea 1995-97

23) "*Síntesis y caracterización de complejos polímero/polímero* (Código del Proyecto: **PI94/59**). Gobierno Vasco 1995-97

24) "*Síntesis y caracterización de complejos polímero/polímero*" (Código del proyecto: **039.310-EB212/95**). Universidad del País Vasco 1995-98

25) "*Síntesis, caracterización y rendimientos de polímeros y copolímeros de acrilamida y otros monómeros relacionados para su uso en depuración de aguas*" (Código del Proyecto: **UE96/14**). Departamento de Industria y Educación, Universidades e Investigación del Gobierno Vasco, 1997-98

26) Investigador principal de Ayudas para Grupos de Alto Rendimiento (Gobierno Vasco) de 1997, para desarrollar el tema "*Estudio de geles físicos obtenidos a partir de copolímeros de bloque*" (Código del proyecto: **EX-1997-14**). Subvención total: 3.000.000 pesetas

27) "*Desarrollo de nuevas familias de floculantes por polimerización en microemulsión inversa*". CICYT 1997-99

28) "*Diseño de hidrogeles termosensibles para la liberación controlada de antineoplásicos*" (Código del proyecto: **MAT98-0574-CO2-01**). CICYT 1998-1999

29) "*Síntesis de nuevos materiales poliméricos: Hidrogeles biocompatibles y su aplicación en la liberación controlada de fármacos*". CYTED 1998-2000

30) "*Nuevas familias de floculantes por polimerización en microemulsión inversa (Código del proyecto:* **UPV039.310-G42/98**)". Universidad del País Vasco 1998-2000

31)"*Geles físicos obtenidos a partir de copolímeros tribloque y dibloque/tribloque en disolventes selectivos* (Código del proyecto: **EX-1998-14**)". Ayudas para Grupos de Alto Rendimiento (Gobierno Vasco) de 1998

32) "*Síntesis de nuevas familias de floculantes por polimerización en microemulsión inversa*" (Código del proyecto **UE-1998-27**). Gobierno Vasco.

33) "*Síntesis de nuevas familias de floculantes por polimerización en microemulsión inversa*". Acción Especial. Gobierno Vasco 1999.

34)"*Liberación de fármacos con hidrogeles termosensibles*". CONACYT (México) 1999

35) "*Electroquímica de Sistemas con tensioactivos*". Gobierno Vasco 1999. Ayudas para Acciones Especiales de Investigación. Gobierno Vasco.

36) "*Síntesis de nuevos materiales polímeros: Hidrogeles inteligentes y su aplicación en la liberación de fármacos"* (Código del proyecto: **EX-1999-122**)". Ayudas para Grupos de Alto Rendimiento (Gobierno Vasco) 1999

37) "*Liberación de agua y sustancias orgánicas e Inorgánicas en hidrogeles de base acrílica. Estudio experimental y modelamiento*" (Código del Proyecto: **1101-05-035099**). Colciencias (Colombia) 1999-2000

38) "*Polímeros bioestables y biodegradables para su empleo en la liberación controlada de fármacos*" (Código del proyecto: **MAT2000-0768-CO2-02)**. CICYT 2001/2003

39) "*Desarrollo de nuevos polielectrolitos aniónicos y catiónicos por polimerización en microemulsión inversa*" (Código del Proyecto: **PPQ2000-287-CO2-02**). CICYT 2001/2003

40) "*Liberación de fármacos mediante el empleo de hidrogeles polímeros*" (Código del proyecto: **9/UPV 00039.310-13635/2001)**. UPV/EHU 2001/2003

AWARDS

a) "**Premio a mejor Tesis Doctoral Hispanoamericana", 1970/71** by The Instituto de Cultura Hispánica

b) *Premio Nacional de Química (1974)*, Real Sociedad Española de Física y Química

ANNEX VII

Prof. dr. G. van Koten
Utrecht University
Dept. of Metal-Mediated Synthesis
Padualaan 8
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The Netherlands
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vankoten@chem.uu.nl

Gerard van Koten (born 1942) is Professor of Organic Synthesis at the Debye Institute of the Utrecht University (since 1986). He studied at the Utrecht University (Master of Science 1967). In 1967 he joined the Institute for Organic Chemistry, TNO where he obtained his PhD (1974; Summa Cum Laude).

In 1977 he moved to the University of Amsterdam (Inorganic Chemistry) where he was appointed to professor (personal chair) in Organometallic Chemistry.

His research interests comprise the study of fundamental processes in organometallic chemistry, the application of organometallic complexes as catalysts for homogeneous catalysis, in particular for fine-chemical synthesis, and as materials with special physicochemical properties (molecular wires and switches). The preparation and use of the first examples of homogeneous metallodendrimer catalysts demonstrate his interest for supramolecular systems with (organometallic) catalytically active functionalities.

He is author of over 580 scientific publications and review papers and of 18 patents. By ISI he has been identified as: "Being among the world's top 250 most highly cited researchers 2000". He is member and serves as the Chairman of the Scientific Council of the Netherlands Research Combination Catalysis. He is Scientific Director of the Netherlands Institute for Catalysis Research (NIOK).

He has been visiting Professor in Strasbourg (France), Salt Lake City (US), Sassari (Italy), Heidelberg and Dortmund (Germany), Fribourg (Switzerland), North West Pacific Inorganic Chemistry Lecturer (1999) (Canada/USA) and in Lausanne (Switzerland). Presently he is chairman of the Academy Committee for Chemistry of the Royal Netherlands Academy of Arts and Sciences and is president of the Technical Committee of COST-Chemistry of the EU. From 01-01-1995 to 31-12-1999 he served as Dean of the Faculty of Chemistry. He was/is board member of a series of scientific journals, e.g. Organometallics and Chemistry-A European Journal. He is consultant for a number of chemical and pharmaceutical companies, e.g. DOW Chemicals, ATOFINA and Ciba Specialty Chemicals.

Jean-Marc. LAVAL, France

Personnal details

Family name: LAVAL
First name: Jean-Marc
Date of birth: 24/02/1959
Nationality: France
Private address: 7, rue du Boulloire, 60350 Genancourt, France
Professional address: Université de Technologie de Compiègne, BP 20529, 60205 Compiègne, France

Profile

Discipline keywords (according to CORDIS keywords): 360, 355, 593, 512, 415, 478
Specialist on: Self-assembled layer, enzymology, biological membranes
Expertise in: Biochemistry, nanobiotechnology, electrochemistry

Linguistic skill

French: very good written, very good read, very good spoken
English: good written, good read, average spoken

Evaluation experience

National level: - evaluations of research projects as expert for the regional program "Biotechnologies" and the national program "Nanosciences - Nanotechnologies"
- evaluation of CNRS researchers and CNRS laboratories in the field of biochemistry as a member of the "Comité National de la Recherche Scientifique"
European level: evaluations as expert for "Marie-Curie Fellowships" and "Cell Factory"

Short CV

Assistant Professor (1987-1993) and Professor (since 1993) at the Compiègne University, I manage the Ph.D. education training "Genie Enzymatique, Bioconversion and Microbiologie" (since 1995) and coordinate one of the three multidisciplinary axes of the university "Nanotechnologies" (since 1997). The teaching experience is relative to biological physicochemistry, biomembrane and enzymology. The research interests are based on the association between enzymology and electrochemistry. Until 1990, my research was focussed on heterogeneous enzymology, cofactor regeneration and electrosynthesis. Since 1990, The goal of the research works is the reconstitution of biomimetic membrane structures (including phosholipid bilayer, membrane proteins and biological electron carriers) on electrode surface in the way to study the dynamics of the structure and the electron transfer between molecules. The biological systems recently investigated are: the electron transfer chain of E.coli including the pyruvate oxidase enzyme, the photosynthetic system of Rhodobacter and the electron transfer chain of mitochondria of yeast. Reconstitutions of the supramolecular structure are made by self-assembly of chemical molecules on electrode surface,

fusion of lipid vesicles and/or Langmuir-Blodgett deposition. Formation of the structure is observed by different techniques like Surface Plasmon Resonance and Atomic Force Microscopy. Electrochemistry is particularly relevant with the supported biomimetic structures to study the lateral diffusion of biological electron carriers and the catalysis of membrane enzyme.

Recent publications

D. MARCHAL, W. BOIREAU, J.M. LAVAL, J. MOIROUX and C. BOURDILLON
An electrochemical approach of the redox behavior of water insoluble ubiquinones and plastoquinones incorporated in supported phospholipid layers.
Biophys. J., 72, 2679-2688 (1997)

O. PIERRAT, N. LECHAT, C. BOURDILLON and J.M. LAVAL
Electrochemical and SPR characterization of the step-by-step self-assembly of a biomimetic structure onto an electrode surface.
Langmuir, 13, 4112-4118 (1997)

D. MARCHAL, W. BOIREAU, J.M. LAVAL, J. MOIROUX and C. BOURDILLON
Electrochemical measurements of lateral diffusion coefficients of ubiquinones and plastoquinones of various isoprenic chain lengths incorporated in model bilayers.
Biophys. J., 74, 1937-1948 (1998)

D. MARCHAL, W. BOIREAU, J.M. LAVAL, C. BOURDILLON and J. MOIROUX
Kinetics of red-ox conversion at a gold electrode of water insoluble ubiquinone and plastoquinone incorporated in supported phospholipid layers.
J. Electroanal. Chem., 451, 139-144 (1998)

O. PIERRAT, C. BOURDILLON, J. MOIROUX and J.M. LAVAL
Enzymatic electrocatalysis studies of Escherichia coli pyruvate oxidase incorporated in a biomimetic supported bilayer.
Langmuir, 14, 1692-1696 (1998)

J.M. LAVAL, P.E. MAZERAN and D. THOMAS
Nanobiotechnnology and its role in the development of new analytical devices.
The Analyst, 125, 29-33 (2000)

S. KELLER, Y. RIOU, J.M. LAVAL and W. LEIBL
Fusion of chromatophores from photosynthetic bacteria with a supported lipid layer: characterization of the electrics units
FEBS Letters, 487, 213-218 (2000)

D. MARCHAL, J.PANTIGNY, J.M. LAVAL, J. MOIROUX and C. BOURDILLON
Rate constants in two dimensions of electron transfer between pyruvate oxidase, a membrane enzyme, and ubiquinone (coenzyme Q8), its water-insoluble electron carrier
Biochemistry, 40, 1248-1256 (2001)

H. GOUBRAN BOTROS, P. PONCET, J. RABILLON, T. FONTAINE, J.M. LAVAL and B. DAVID
Biochemical characterization and surfactant property of horse allergens
Eur. J. Biochem., 268, 3126-3136 (2001)

V. PROUX-DELROUYRE, J.M. LAVAL and C. BOURDILLON
Formation of tethered supported lipid bilayers on porous anodic alumina. Electrochemical monitoring of the triggered vesicles fusion.
J. Am. Chem. Soc., 123, 9176-9177 (2001)

V. DEMANGE, E. LESNIEWSKA, J.P. GOUDONNET and J.M. LAVAL
Invasive observation by atomic force microscope of a Langmuir-Blodgett monolayer of gramicidin.
Probe Microscopy, in press

V. PROUX-DELROUYRE, C. ELIE, J.M. LAVAL, J. MOIROUX and C. BOURDILLON
Formation of tethered and streptavidin-supported lipid bilayers on a microporous electrode for the reconstitution of membranes of large surface area.
Langmuir, in press

P.E. MAZERAN, A. BERQUAND and J.M. LAVAL
Reconstruction of scanning probe microscopy tips and surface image.
Submitted

Knut RUYTER, Norway

As to TC Social Sciences the research field of humanities/ethics is not (yet) taken up and thus not (yet) represented by the actual members. Therefore the Chairman of TC SS was looking for an expert outside of the TC (nevertheless representing the TC). If humanities/ethics are not yet represented by some other expert I suggest to take Knut Ruyter into account - as the aspect of humanities/ethics should be taken into account in BioMat activities.

Basic biographical information:

My CV is in the EU system as I am a socalled "expert" for the review system.

In short I have a doctorate degree in medical ethics, employed as head of the secretariat for The national ethical committee for medical research, and a professor II (20%) in ethics in the Department of Systematic Theology, Faculty of theology, University of Oslo. I want to draw your attention to that we have also another secertariat for Research in Social Science and the Humanities with another head of the secretariat, Ms Hilde Wisløff Nagel (cand.polit. soon doctorate degree).

ANNEX X

Curriculum Vitae

Professor Kevin Shakesheff MRPharmS

EPSRC Advanced Fellow

School of Pharmaceutical Sciences
University of Nottingham
NG7 2RD

Chair in Drug Delivery and Tissue Engineering

Scientific Director
RegenTec Ltd.

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Tel: 0115 951 5104
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www.nottingham.ac.uk/pharmacy/tissue-eng

www.regentec.net

Synopsis

When a man-made biomaterial is placed into the living environment within a patient an argument often breaks out. The biomaterial is insensitive to the subtly of the biological environment and in reply a hostile response from the body is launched. To avoid this detrimental situation, scientists have developed methods of hiding the biomaterial from the body through changes in biomaterial surface chemistry. This "chemical truce" between synthetics and biologics is an unsatisfactory solution because it limits the function of the biomaterial to a passive supporting role.

Professor Kevin Shakesheff and his team at University of Nottingham are playing their part in a world-wide endeavour to create a lasting peace between synthetic surfaces and the biological world. Their approach is to develop biomimetic strategies whereby a synthetic material surface can engage with cells using biological communiction. If biomaterials can learn to initiate a positive interaction with cells then the technological and medical impact will be immense. In particular, tissue engineering scaffolds will provide multiple signals to control the proliferation and differentiation of cells and drug delivery systems will direct themselves to the site of drug activity.

The new technologies developed by Prof Shakesheff's team have arisen from the hard work of his 15 strong team of postdoctoral fellows and students within his Tissue Engineering Group. This Group has developed novel methods of:

- Engineering polymer surfaces to create biomimetic activity.(eg *Macromolecules, 33, 258, 2000)*
- Spatially controlling the regeneration of nerves. (eg. *FASEB Journal, 12, 1447, 1998)*
- Regenerating functional liver tissue (eg *Tissue Engineering, 7, 345, 2001)*
- Using supercritical fluid technology to retain growth factor functionality within scaffolds (eg *Chem Comm, 1, 109, 2000.*

Within the UK, the high profile of the group has led to a "Scientists for the New Century" Lecture at the Royal Institution, articles in the Times ("The Regrowth of Nerves", Thursday August 24) and the Sunday Times (Nerve Growth Research, October 15), and an appearance of BBC Radio 4's "The Material World". Full details of academic achievements are contained in the attached CV.

Professor Shakesheff's team have rapidly developed a patent portfolio and intense interest in partnerships from industry. To maximise the ability to exploit this science, Professor Shakesheff has set-up a University spin-out company called RegenTec.

RegenTec's mission is to exploit expertise and intellectual property in the field of tissue engineering. Through development and licensing agreements the company will realise returns from its abilities to promote *in vitro* tissue formation from small populations of cells. Markets to be exploited include tissue repair and regeneration for medical interventions and *in vitro* drug screening and toxicology. The company is aiming to bridge the gap between new tissue engineering technologies and the commercial markets that will be decide if this new medical field will realise its potential.

The UK and European market for tissue engineering science is very much in its infancy compared to the US. As a result RegenTec and Professor Shakesheff are trying to simultaneous educate established pharmaceutical and biomaterials companies about the incredible potential of this field and stimulating more fundamental research within UK institutions. In 1997, he co-founded the Tissue and Cell Engineering Society as a focus for UK scientists and industrialists. This society has attracted over 600 delegates to its annual conferences. A guide to his success in attracting industrial groups are the 12 UK companies with ongoing projects with the University team and RegenTec. In 2001, his research group has been recognised as a European centre for training in tissue engineering and drug delivery under the Marie Curie Training Programme.

Professor Shakesheff's long-term vision for the future is that commercially-viable methods of creating biomimetic and communicative surfaces will set the standards for new generations of biomaterials. This will change the way we test new generations of drugs, deliver drugs to specific targets, and promote tissue regeneration.

Summary of Qualifications

First Class Honour Degree, Bachelor of Pharmacy The University of Nottingham 1991
Member of the Royal Pharmaceutical Society, since 1992
Ph.D., The University of Nottingham 1995

Professional Experience

NATO Postdoctoral Research Fellow
Massachusetts Institute of Technology, Department of Chemical Engineering, 1996.

Research and Development Pre-registration Pharmaceutical Scientist
Fisons Pharmaceuticals Plc., Holmes Chapel, UK, 1992.

Additional Professional Activities

Co-founder and Secretary, The Tissue & Cell Engineering Society 1998 onwards
Member of the EPSRC College 1998 onwards
Member of the BBSRC Engineering and Biological Systems Network Group 2000 onwards.
Journal of Pharmaceutical Sciences, Editorial Board Member
Journal of Pharmacy and Pharmacology, Editorial Board Member

Career Highlights

2000 Invited to present "Scientists for the New Century" Lecture at the Royal Institution of Great Britain

1998 Controlled Release Society Award for Outstanding Pharmaceutical Paper

1997 Engineering and Physical Sciences Research Council Advanced Fellowship

1996 NATO Postdoctoral Fellowship at Massachusetts Institute of Technology

1994 Gertrude Cropper Award, The University of Nottingham. Science Faculty

1994 UK Association of Pharmaceutical Scientists Award for Best Presentation

Funding

Tissue Engineering Group Initiated Grants

Advanced Materials for Drug Delivery and Tissue Engineering
Marie Curie Training Site
European Union
Start Jan 2002

Engineering Functional Liver Tissue In Vitro: Exploiting the Link between Cell Communication and Gene Expression
KM Shakesheff, JR Fry, A Bennett
BBSRC Responsive Mode
Start March 2001 £246,596
End March 2004

A Tissue Engineering Approach to Corticospinal Tract Regeneration
KM Shakesheff and G Raisman
BBSRC Responsive Mode
Start November 2000 £120,555
End November 2002

Engineering and Biological Systems Special Committee Studentships
KM Shakesheff, B Kellam, DA Kendall
H Byrne (Maths) and KM Shakesheff
CJ Roberts and KM Shakesheff
Three studenships were awarded by the EBS Committee
November 2000 approx value £80,000
Start October 2001
End October 2004

Porous Substrates for Tissue and Cell Engineering
KM Shakesheff, DM Grant, SM Howdle, C Scotchford and J Wood
Foresight LINK/EPSRC
Start July 2000 £379,567
End July 2003

Site-specific Neuromuscular Junction Formation via Biomimetic Engineering
KM Shakesheff, B Kellam and DA Kendall
BBSRC Responsive Mode
Start November 1999 £223,696
End Novemebr 2002

Manufacturing of Biointeractive Scaffolds for Tissue Engineering Using Supercritical Fluid Technology
SM Howdle, KM Shakesheff and MC Davies
EPSRC Materials Processing for Engineering Applications Managed Programme
Start December 1998 £251, 328
End December 2001

Spatially Controlled Cell Engineering : A Strategy to Control Nervous Tissue Micro-Architecture
KM Shakesheff, MC Davies, SJB Tendler, CJ Roberts and PM Williams
BBSRC Responsive Mode
Start November 1998 £158,980
End November 2001

Surface Engineering of Biodegradable Polymers to Create Biomimetic Materials
KM Shakesheff
EPSRC Materials Programme
April 1998 £168,667
Ended April 2001

Award for Collaboration in Europe
KM Shakesheff
Novartis Fellowship Trust
Start December 1997 £4,000
Ended December 1999

Surface Engineering of Polymers to Create Materials with Biological Mimicking Activity
KM Shakesheff
EPSRC Advanced Fellowship application
Start July 1997 £160,000
End July 2002

Collaborative Grants

Characterisation of Surfaces, Thin Films and Nanometre Scale Structures by X-ray Photoelectron Spectroscopy
Briggs *et al*
EPSRC Responsive Mode
Start Jan 2001 £653,331

Instrumentation for the Spatial Analysis of Reactions at Interfaces
PM Williams, MC Davies, CJ Roberts, SJB Tendler and KM Shakesheff
EPSRC Instrument Development Call
Start November 1998 £330,232
End November 2001

The Thermal Characterisation of Materials at The Sub-Micron Scale by Scanning Thermal Microscopy
CJ Roberts, MC Davies, SJB Tendler, PM Williams, S Allen, KM Shakesheff, D Grant, SM Howdle
EPSRC Multi-user Equipment Call.
February 2000 £211,000

Research Activities

In 1996 I was awarded a NATO postdoctoral fellowship to work with Professor Robert Langer at the Massachusetts Institute of Technology. At MIT I became involved in the design of novel biodegradable polymers for use in advanced drug delivery and tissue engineering. During my time at MIT, I applied for an EPSRC Advanced Fellowship and this award was granted in early 1997.

Since returning to Nottingham from MIT under the Advanced Fellowship, I have established the Tissue Engineering Group as an independent research group within the School of Pharmaceutical Sciences. The research of the Group bridges the gap between pharmaceutical science and the new field of tissue engineering. The Group has attracted over £1.9 million in funding, primarily from peer-reviewed Research Council and Foresight LINK awards. Recent publications of note include an invited review for *Chemical Reviews* on the use of biodegradable polymers and original papers in *The FASEB Journal, Macromolecules, Chemical Communications, and Tissue Engineering*. UK and US patent applications on the design of new biodegradable polymers and methods of spatially controlling cell spreading and tissue formation have been filed. The University of Nottingham-led patent entitled "Surface Coating in Spatially Controlled Patterns" is the subject of a licensing agreement with Enact Pharma plc and is under development as the foundation of a new peripheral nerve regeneration product. Other companies with research links to the Group include Smith & Nephew plc, Ferro Corporation inc., Advanced Medical Solutions plc. and Boots Contract Manufacturing.

The Group is currently composed of 6 postdoctoral fellows, 12 Ph.D. students and an Industrial MRes student funded through a range of Research Council, industrial and University funding mechanisms. The Group aims to develop methods of engineering human and mammalian tissues in the laboratory. These tissues will be available for drug testing and tissue regeneration. The diverse research undertaken by members of the Tissue Engineering Group includes polymer synthesis, surface engineering, cell-to-biomaterial interactions and tissue regeneration. This multidisciplinary approach has been part of an ongoing plan to establish the group as an internationally-leading centre undertaking an integrated tissue engineering research programme. A key strategy in achieving the above goal is to form collaborative links across the Campus and with other centres of excellence around the World.

The core technologies of the Group are at the interface between materials science and biology. These technologies are:

Design and manufacture of biomimetic scaffolds
These scaffolds act as templates for tissue development and must mimic the complex surface chemistry and three-dimensional morphology of regenerative environments within the body. Advances in this area include the spatial guidance of peripheral nerve regeneration, a novel method of surface engineering biodegradable polymers and the use of supercritical fluid technology to create protein-loaded systems (in collaboration with Dr Steve Howdle). Outcomes of this research, to date, include the licensed patent discussed above (spatial guidance), international collaborations, a programme of technology transfer into a UK company (surface engineering), and a major joint development programme with a US company (supercritical fluids).

Engineering Complex Tissues
Using our biomimetic scaffolds, the Group engineers complex mammalian tissues in the laboratory. Advances in this area include the formation of functional liver tissue by a simple co-culture strategy and the accelerated regeneration of myelinated nerves. Outcomes of this research include 2 inventions that are the subject of University of Nottingham patents due for filing in early December 2000. Funding has been secured for major new programmes within this field in cartilage regeneration (Foresight LINK), spinal cord repair (BBSRC, in collaboration with NIMR) and neuromuscular junction formation (BBSRC, in collaboration with Institute of Cell Signalling).

Exploitation of Engineered Tissues
The exceptional promise of tissue engineering lies in the ability to create new medical interventions and transform high throughput drug screening. The Group is actively engaged in projects that aim to advance exploitation in these areas. Outcomes of this research include the use of engineered skin in the testing of DNA-protectant materials and the demonstration of prolonged cytochromeP450 expression in hepatocytes (a prerequisite for the use of engineered liver tissue in drug screening and transplantation applications)

Further details of current research programmes are provided in Appendix 1.

The Group has established a high profile within the international tissue engineering community. In 1998, I was one of two co-founders of the Tissue & Cell Engineering Society. This Society has attracted over 300 members and held a successful conference at the Imperial College School of Medicine that received considerable national media coverage. In 2000, a second conference was held at Nottingham under my co-ordination.

The Group is also committed to promoting the external perception of research at the University and the public understanding of tissue engineering science. During 2000, efforts within remit have resulted in a "Scientists for the New Century" Lecture at the Royal Institution, articles in the Times ("The Regrowth of Nerves", Thursday August 24) and the Sunday Times (Nerve Growth Research, October 15), and an appearance of Radio 4's "The Material World".

Entrepreneurial Activities

Transferring technology from an academic idea to a commercial reality is a difficult, bit vital, step in realising the clinical and economic potential of an invention. This step is all the more difficult when a technology challenges current industrial practices. This is the situation faced by the tissue engineering industry because the technologies it promises are a step-change in the way we think of cell-based products.

To realise the commercial potential of Professor Shakesheff's inventions he has formed a spin-out company called RegenTec Ltd. This company was formed at the start of 2001 and through an organic growth model it has a predicted first year turn-over in excess of $250k.

RegenTec has IPR in the emerging field of in situ solidifying scaffolds for tissue engineering. These porous scaffolds are injected through a syringe into a patient and self-assemble into stem cell laden porous templates. RegenTec is also committed to the delivery of technologies for liver and nerve regeneration.

Patents and Publications

1. Human osteoprogenitor growth and differentiation on synthetic biodegradable structures after surface modification, Bone, 29, 523-531, 2001.

2. Maintaining in vitro functionality of hepatocytes cultures, Riccalton-Banks LA, Bhandari RNB, Fry JR and Shakesheff KM, Toxicology, 168, 122, 2001.

3. The Role of Growth Factors in Tissue Engineering, Whitaker MJ, Quirk RA and Shakesheff KM, Journal of Pharmacy and Pharmacology, 53, 1427-1437, 2001.

4. Recent Advances in Tissue Engineering, Journal of Long Term Effects of Medical Implants, Pearson RA, Bhandari R, Quirk RA and Shakesheff KM, in press.

5. Stop or grow, Chem Brit 37 (4): 29-30, 2001.

6. Tissue Scaffold, Shakesheff KM and Salem A, British patent application, Filed 20th June 2001.

7. Nerve Regeneration, Shakesheff KM and Pearson RA, British Patent Application No. 0030583.0, Filed 15th December 2000.

8. Hepatocyte Co-culture, Shakesheff KM, Bhandari R, Quirk RA and Riccalton-Banks L, British Patent Application No. 0030584.7, Filed 15th December 2000.

9. Synthesis and Characterisation of a Biotinylated Polylactide-Polyethylene Glycol Copolymer. Ali S, Cannizzaro SM, Davies MC, Roberts CJ, Tendler SJB, Shakesheff KM, Biomacromolecules, in press.

10. Controlling Biological Interactions with Poly(lactic acid) by Surface Entrapment Modification. Quirk RA, Davies MC, Tendler SJB, Shakesheff KM, Langmuir, 17, 2817-2820, 2001.

11. Characterisation of the Spatial Distributions of Entrapped Polymers following the Surface Engineering of Poly(lactic acid). Quirk RA, Briggs D, Davies MC, Tendler SJB and Shakesheff KM, Surface Interface Analysis, 31, 49-52, 2001 .

12. A Comparison of the Adhesion of Mammalian Cells and *Staphylococcus epidermidis* on Fibronectin-Modified Polymer Surfaces. Dexter SJ, Pearson RG, Davies MC, Camara M and Shakesheff KM, Journal of Biomaterials Research, 56, 222-227, 2001.

13. Supercritical Fluid Mixing: Preparation of Thermally Sensitive and Bioactive Polymer Composites. Howdle SM, Watson MS, Whitaker MJ, Popov VK, Davies MC, Mandel FS, Wang FS and Shakesheff KM, Chem Comm, 1, 109-110, 2000.

14. Liver Tissue Engineering: A Role for Co-culture Systems in Modifying Hepatocyte Function and Viability. Bhandari RNB, Riccalton LA, Lewis AL, Fry JR, Hammond AH, Tendler SJB and Shakesheff KM, Tissue Engineering, 7, 345-358, 2001.

15. Poly(L-lysine)-GRGDS as a Biomimetic Surface-Modifier for Poly(lactic acid). Quirk RA, Chan WC, Davies MC, Tendler SJB and Shakesheff KM, Biomaterials, 865-872, 2001.

16. Surface Engineering of Poly(lactic acid) by Entrapment of Modifying Species, Quirk RA, Davies MC, Tendler and Shakesheff KM, Macromolecules, 33, 258-260, 2000.

17. Biomimetic structures for osteoprogenitor growth, Yang XB, Roach HI, Clark NMP, Quirk RA, Shakesheff KM and Oreffo ROC, J Bone Miner Res, 15, 1234, 2000.

18. Surface plasmon resonance analysis of dynamic interactions with biomaterials. Green RJ, Frazier R, Davies MC, Roberts CJ, Shakesheff KM, Tendler SJB and Williams PM. Biomaterials, 21, 1823-1835, 2000.

19. Printing Patterns of Biospecifically Adsorbed Proteins, Patel N, Bhandari R, Shakesheff KM, Cannizzaro SM, Davies MC, Langer R, Roberts CJ, Tendler SJB and Williams PM, Journal of Biomaterials Science Polymer Edition, 11, 319-331, 2000.

20. Polymeric Systems for Controlled Drug Release, Uhrich KE, Cannizzaro SM, Langer RS and Shakesheff KM, Chemical Reviews, Chemical Reviews 99, 3181-3198, 1999.

21. Modification of Surfaces Using Biological Recognition Events, Langer R., Cannizzaro SM, Mueller BG and Shakesheff KM, US Patent Application 09/314,540.

22. Atomic Force Microscopy analysis of highly defined proteins formed by microfluidic networks, Patel N, Sanders GHW, Shakesheff KM, Cannizzaro SM, Davies MC, Langer R, Roberts CJ, Tendler SJB, Williams PM, Langmuir, 15, 7252, 1999.

23. Surface Engineering and Surface Analysis of a Biodegradable Polymer with Biotinylated End Groups, Black FE, Hartshorne M, Davies MC, Roberts CJ, Tendler SJB, Williams PM, Shakesheff KM, Cannizzaro SM, Kim I and Langer R, Langmuir, 15, 3157-3161, 1999.

24. The Use of XPS in Surfactant Surface Analysis, Shakesheff KM, Davies MC and Langer R, Surfactant Science Series, 87, 143-172, 1999.

25. Spatially Controlled Cell Engineering on Biodegradable Polymer Surfaces, Patel N, Padera R , Sanders GHW, Cannizzaro SM , Davies MC, Langer R , Roberts CJ, Tendler SJB, Williams PM, Shakesheff KM, The FASEB Journal, 12, 1447-1454, 1998.

26. A novel biotinylated degradable polymer for cell-interactive applications. Biotechnology and Bioengineering, Cannizzaro SM, Padera RF, Langer R, Rogers RA, Black FE, Davies MC, Tendler SJB, Shakesheff KM, Biotechnology and Bioengineering, 58, 529-535, 1998.

27. Shakesheff, K.M., N. Patel, R. Langer and S. Cannizzaro, Surface Coating in Spatially Controlled Patterns, International Patent Application, WO9936107A1, Priority Date Jan. 20, 1998 (GB1998000010614)

28. The use of SIMS, XPS and in situ AFM to probe the acid catalysed hydrolysis of poly(orthoesters). Leadley, S.R., Shakesheff KM, Davies MC, Heller J, Franson NM, Paul AJ, Brown AM and Watts JF, Biomaterials, 19, 1353-1360, 1998.

29. Relating the phagocytosis of microparticles by alveolar macrophages to surface chemistry: the effect of 1,2-dipalmitoylphosphatidylcholine. Evora C, Soriano I, Rogers RA, Shakesheff KM, Hanes J, Langer R, Journal of Controlled Release, 51, 143-152, 1998.

30. Chemical and morphological analysis of surface enrichment in a biodegradable polymer blend by phase-detection imaging atomic force microscopy Chen, X., S.L. McGurk, M.C. Davies, C.J. Roberts, Shakesheff KM, Tendler SJB, Williams PM, Davies J, Dawkes AC and Domb A, Macromolecules, 31, 2278-2283, 1998.

31. Creating biomimetic micro-environments with synthetic polymer-peptide hybrid molecules Shakesheff, KM, Cannizzaro SM and Langer R, Journal of Biomaterials Science-Polymer Edition, 9, 507-518, 1998.

32. The adsorption of poly(vinyl alcohol) to biodegradable microparticles studied by x-ray photoelectron spectroscopy (XPS), Shakesheff, KM, Evora C, Soriano I and Langer R, Journal of Colloid and Interface Science, 185, 538-547, 1997..

33. Dynamic surface events measured by simultaneous probe microscopy and surface plasmon detection, Chen X, Davies MC, Roberts CJ, Shakesheff KM, Tendler SJB and Williams PM, Analytical Chemistry, 68, 1451-1455, 1996.

34. Toward true surface recovery: Studying distortions in scanning probe microscopy image data Williams PM, Shakesheff KM, Davies MC, Jackson DE, Roberts CJ and Tendler KM, Langmuir, 12, 3468-3471, 1996.

35. The role of scanning probe microscopy in drug delivery research, Shakesheff KM., Davies MC, Roberts CJ, Tendler SJB and Williams PM, Critical Reviews in Therapeutic Drug Carrier Systems. 13, 225-256, 1996.

36. Combined surface plasmon resonance and scanning force microscope instrument Chen, X, Davies MC, Roberts CJ, Shakesheff KM, Tendler SJB, Williams PM and Davies J, Journal of Vacuum Science & Technology B, 14, 15 82-1586, 1996.

37. Blind reconstruction of scanning probe image data Williams, PM, Shakesheff KM, Davies MC, Jackson DE, Roberts CJ and Tendler SJB, Journal of Vacuum Science & Technology B, 14, 1557-1562, 1996.

38. Surface analysis of biodegradable polymer blends of poly(sebacic anhydride) and poly(DL-lactic acid) Davies, M.C., Shakesheff KM, Shard AG, Domb A, Roberts CJ, Tendler SJB and Williams PM, Macromolecules, 29, 2205-2212, 1996.

39. Latest developments in the application of scanning probe techniques in polymer science Roberts, C.J., M.C. Davies, Shakesheff KM, Tendler SJB and Williams PM, Trends in Polymer Science, 4, 420-424, 1996.

40. Release of Protein From a Poly(Ortho Ester) Film During Surface Erosion Studied By in-Situ Atomic-Force Microscopy Shakesheff, KM, Davies MC, Heller J, Roberts CJ, Tendler SJB and Williams PM, Langmuir, 11, 2547-2553, 1995.

41. Relating the Phase Morphology of a Biodegradable Polymer Blend to Erosion Kinetics Using Simultaneous in-Situ Atomic-Force Microscopy and Surface-Plasmon Resonance Analysis Shakesheff KM, Chen XY, Davies MC, Domb A, Roberts CJ, Tendler SJB and Williams PM, Langmuir, 11, 3921-3927, 1995.

42. In-Situ Atomic-Force Microscopy Visualization of the Degradation of Melt-Crystallized Poly(Sebacic Anhydride) Shakesheff, KM, Davies MC, Domb A, Jackson DE, Roberts CJ, Tendler SJB and Williams PM, Macromolecules, 28, 1108-1114, 1995.

43. Degradation of a Thin Polymer Film Studied By Simultaneous in-Situ Atomic Force Microscopy and Surface-Plasmon Resonance Analysis Chen, X, Shakesheff KM, Davies MC, Heller J, Roberts CJ, Tendler SJB and Williams PM , Journal of Physical Chemistry, 99, 11537-11542, 1995.

44. Use of Scanning Probe Microscopy and Surface-Plasmon Resonance As Analytical Tools in the Study of Antibody-Coated Microtiter Wells Davies J, Roberts CJ, Dawkes AC, Sefton J, Edwards JC, Glasbey TO, Haymes AG, Davies MC, Jackson DE, Lomas M, Shakesheff KM, Tendler SJB, Wilkins MJ, andWilliams PM, Langmuir, 10, 2654-2661, 1994.

45. In-Situ Atomic-Force Microscopy Imaging of Polymer Degradation in an Aqueous Environment Shakesheff, KM, Davies MC, Roberts CJ, Tendler SJB, Shard AG and Domb A, Langmuir, 10, 4417-4419, 1994.

46. Imaging the Surface of Silica Microparticles With the Atomic-Force Microscope - a Novel Sample Preparation Method, Shakesheff, KM, Davies MC, Jackson DE, Roberts CJ, Tendler SJB, Brown VA, Watson RC, Barrett DA and Shaw PN, Surface Science, 304, L393-L399, 1994.

47. Imaging of poly(ethylene oxide) spherulites by atomic force microscopy Shakesheff, KM, Davies, MC, Jackson, DE, Leggett, GJ, Roberts, CJ, Tendler, SJB, Williams, PM, Nanobiology, 3, 41-47, 1994.

Liver Tissue Engineering

(in collaboration with Dr Jeff Fry, School of Biomedical Sciences)

The Group has reported new methods of growing mammalian liver tissue in the lab. Recent developments in this field are the subject of a University of Nottingham patent application in preparation (due for filing Dec 2000). It is envisaged that within 12 months these developments will be transferred into industry as the foundation for new drug toxicology and metabolism testing tissues. Such tissues are needed for high throughput screening by the pharmaceutical industry and environmental toxicology assays.

Spatially Controlled Engineering of Peripheral Nerves

(in collaboration with the Laboratory of Biophysics and Surface Analysis)

The Group has reported the spatial control of neurite extension on biodegradable polymer surfaces. This work is the subject of a University of Nottingham/MIT patent application that has undergone world-wide filing and has been licensed to Enact Pharma plc. Under BBSRC funding, the Group has further developed this concept and a new invention concerning peripheral nerve guidance is the subject of University of Nottingham patent application in preparation (due for filing Dec 2000).

A Tissue Engineering Approach to Corticospinal Tract Repair

(in collaboration with the National Institute of Medical Research)

The permanent paralysis that results from traumatic injury to the corticospinal tract within the spinal cord is a terrible human cost that could be prevented or even reversed by tissue engineering. In October 2000, the BBSRC announced an award to the Group, in collaboration with Professor Geoff Raisman at the NIMR, that will attempt to prove-the-concept of stimulating central nerve repair with Nottingham-designed biomaterials incorporating olfactory ensheathening cells.

Synthesis and Surface Engineering of Novel Biodegradable Polymers

The Group has maintained a strength in the engineering of polymer surfaces that was forged during my time at MIT. Within this programme and under EPSRC funding, the Group has developed a new method of engineering biodegradable polymer surfaces that allows fine control over cell interactions. The engineered polymers have proven successful as templates for tissue regeneration. The ability to generate these specialised polymers has led to considerable external interest from both academic and industrial partners. Collaborations with Dr Richard Oreffo, a leading researcher in the use of stem cells in bone regeneration from Southampton, Dr Ivan Martin, Kantonsspital Basel, and Professor Alicia El Haj, Head of Tissue Engineering, Keele University have been established to exploit the Nottingham approach. A technology transfer programme is also in progress to adapt the surface engineering approach to the needs of a UK company.

Site-specific Formation of Neuromuscular Junctions

(in collaboration with Professor Dave Kendall (ICS) and Dr Barrie Kellam)

The control of re-innervation of engineered or damaged tissues is major issue in tissue engineering that impacts across many tissue types. With BBSRC funding, the Group is leading a collaboration with the Institute of Cell Signalling, to develop generic methods of controlling cell-to-cell interactions. The first application of this concept will be in the formation of neuromuscular junctions at specific sites on engineered muscle surfaces.

Engineering the Next Generation of Cartilage and Bone Products
(in collaboration with Schools of Chemistry and 3MEM with 5 industrial partners)
Under a Foresight LINK programme, with KMS as principal investigator, the University is developing tissue engineering scaffolds that it is envisaged will be the basis for new tissue engineering products in the skeletal tissue field. This programme brings together Smith & Nephew plc, ICI plc, Plasma Biotal Ltd, Corthinian Medical Ltd, and Molecular Profiles Ltd.

Promoting Mammalian Cell versus Bacteria Adhesion to Biomaterial Surfaces
(in collaboration with Dr Miguel Camara)
Exploiting the strength of the Group in controlling cell interactions with polymer surfaces and collaborating with the Microbiology Group, we are investigating a novel approach to prevent bacterial infection of biomaterials. This approach is based on the engineering of living layer of the patient's own cells on the biomaterial, essentially making the biomaterial surface invisible to invading bacteria and promoting the host's immune defence.

Developing Skin Culture Models for Consumer Product Testing
In collaboration with Boots Contract Manufacturing, the Group is developing lab-grown skin tissue models for use in efficacy and safety testing of their consumer products. The work has allowed BCM to prove the efficacy of sun-screen products.

Supercritical Fluid Technology in Tissue Engineering and Advanced Drug Delivery
(in collaboration with Dr Steve Howdle, School of Chemistry)
Since 1997, the Group has played an active role in development of the supercritical fluids in tissue engineering and advanced drug delivery. This has been possible through a close collboration with Dr Steve Howdle of the Clean Technology Group. On the academic side, the development of this technology is the subject of a major EPSRC Materials Processing for Engineering Applications award in which methods of manufacturing tissue engineering scaffolds and protein delivery devices are being advanced.
This technology is the subject of University patent that is undergoing commercial exploitation by Ferro Corp Inc with support from Drs Howdle and Shakesheff. Under the joint development agreement with Ferro, the University receives a 50% royalty on all commercial ventures.

CURRICULUM VITAE

FULL NAMES
Yli-Urpo, Antti Uuno Olavi

DATE AND PLACE OF BIRTH
15 July 1941, Loimaa, Finland,

CURRENT POSITION

Leader of the Turku Biomaterials Project, Institute of Dentistry, University of Turku	16 Jan	1986 -
Professor and Head of the department of prosthetics, University of Turku	18 Oct	1988 -

EDUCATION AND TRAINING

Licentiate in Odontology, University of Turku	May	1966
Doctor in Odontology, University of Turku	Jan	1976
Specialist in Clinical Dental Care (Prosthetics)		1978
Docent in dental prosthetics, University of Turku		1981

PREVIOUS PROFESSIONAL APPOINTMENTS

Practising dentist	since	1966
Post graduate training courses total 45		1968 -
Research Associate (Prosthetic Department and Material project, Dental School, University of Turku), total 63 months		1968 - 1977
Research Associate (Academy of Finland), total 36 months		1973 - 1976
Lecturer in Dental Prosthetics, total 16 months		1977 - 1979
Acting professor of Clinical Dentistry (field: Dental Prosthetics & Head of Department, University of Kuopio) total 11 months		1979 - 1981
Professor of Clinical Dentistry (field: Dental Prosthetics & Head of Department, University of Kuopio), total 40 months		1981 - 1984
Visiting Scientist (Scandinavian Institute for Dental Materials), total 14 months		1979 - 1982
Hospital Dentist (University of Turku Department of Dental Prosthetics)		1984 - 1988
Leader of contractual research project in the Institute of Dentistry (University of Turku)		1984 -
Professor of Prosthetic Dentistry & Head of Department, University of Turku		1989 -

RESEARCH AWARDS, HOURS AND MAJOR STIPENDIARY SUPPORT

Visiting Scientist, Scandinavian Institute for Dental Materials, NIOM, Oslo, total 14 months 1979 - 1982
Project leader for Biomaterial Research projects (34 employed) University of Turku (founded by Technological Development Centre) Finland, Finnish Academy and Ministry of Education 1984 -
1. Biomaterial Project (Tekes) 1984 - 1994
2. Project for Materials Resorbing in tissues (Tekes) 1989 - 1991
3. Project for Biopolymers (Tekes) 1992 - 1996
4. Project for Materials in Tissues (Tekes) 1992 -
5. Coatings on Ti for Medical and Dental use (Ministry of Education) 1993 - 1994
6. Metal glasses for Medical and Dental applications Ministry of Education) 1993 - 1994

MEMBERSHIPS IN SCIENTIFIC SOCIETIES
Member or board member in 8 national and international societies
President of Scandinavian Society of Prosthetic Dentistry 1994 - 1996
President of Implantological division Finnish Dental Society 1992 - 1993
President of European Prosthodontic Association 1997 - 1998

OTHER ACADEMIC AND PROFESSIONAL ACTIVITIES
Found qualified and competent for the post of professor of Clinical Dentistry (Prosthetics) at the University of Kuopio 1981
Visiting professor in prosthetics at Muhimbili Medical Centre Incorporating the Faculty of Medicine, University of Dar-Es-Salaam 1981
Member representing University of Kuopio on National Medical Student Selection Committee 1981 - 1983
Dean of the Dental School of University of Kuopio 1982 - 1983
Vice-Dean of the Dental School of University of Kuopio 1984
Chairman of Student Selection Committee, University of Kuopio 1982 - 1984
Member of State Workgroup for the planning of dental technician training 1982
Member of group of experts in odontology set up by the Ministry of Health and Social Security 1980 - 1988
Member of the Kuopio University Dental Faculty Council 1982 - 1984
Member of Workgroup for the planning of specialised dental training, Ministry of Education 1983
Member of Committee of the Kuopio University Specialised Training Centre 1984
Appt. consultant for FDI Commission on Dental Products 1984 - 1989
Official opponent for 9 doctoral dissertations; 4 in Finland, 4 in Sweden and 1 in the Netherlands 1982 -
Referee on scientific competence for docent in dental prosthetics 1983
Chairman of Workgroup for the planning of dental education in the faculty 1990 -
Member of the Turku University Dental Faculty Council 1991 -
Referee for 2 doctoral dissertation 1986 -

Supervisor for 9 doctoral dissertations	
Invited expert at 4 International Workshops	
Invited expert advisor in the Committee for patients´ Claims for Damages, Ministry of Health and Social Security	1985 -
Postgraduate teaching courses given in Clinical prosthetics, restorative dentistry and physiology, dental materials and implantology, total 45 courses, together 82 lecture days	1970 - 1987
Scientific topic programs in Finnish TV and radio, five times	1991 - 1999
Several lectures on Annual Dental Symposium and Meeting	1976 -
Permanent expert advisor for the Medical Institution	1996 - 2001
Company founder and chairman of the board (LM-Dental)	1973 - 1989
and a board member	1989 - 1999
Bioxid founder and a board member, president	1993 -
Stick-Tech founder and a board member, chairman of the board	1996 -
President of Finnish Biomaterial Society, founded 2001	2001 -
President of Biomaterial Cluster in Finland 2001 -	

AWARDS and GUALITY EVALUATION:
Research group evaluated as a centre of excellence in the Academy of Finland for years 2002 - 2007

Jos Weber

Jos Weber is a chemical engineer with a long experience in chemistry, materials and corrosion sciences. He holds a PhD from the Swiss Federal Institute of Technology in Zürich. Jos Weber joined in 1964 the former R&D Department of Sulzer in Winterthur (today Sulzer Innotec). He began his career with research work on materials for nuclear power plants. In the early 70ies he started with the implementation of a corrosion laboratory at Sulzer, and, a few years later, he was appointed as head of the laboratories for analytical chemistry and for corrosion protection. In 1992 he was nominated Vice President, and in 1995 he took over the responsability for the new department on „Ecosystems" at Innotec. Jos Weber was for many years president of the Swiss Society for Surface Technology, and he was awarded from the European Federation of Corrosion for his contributions to industrial corrosion science and technology. He retired from his professional activities in June 1998. He coninues to be involved in the COST research programme. He is chairman of the COST Technical Committee on Materials and swiss delegate to the Management Committee of COST Actiom 520 on "Interactions between microorganisms and materials".

CURRICULUM VITAE (revu et actualisé en janvier 2001)

de

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Ingénieur diplomé EPFZ, Dr. sc. techn.

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- né le 30 novembre 1934 à Differdange (Luxembourg)
  nationalité actuelle: Luxembourg
- école primaire à Differdange
- gymnase en Belgique et France (M&M), baccalauréat type A (classique)

Formation professionelle

- 1955-1956 Université de Zurich, département chimie
- 1956-1960 Ecole Polytechnique Fédérale de Zurich, études d'ingénieur chimiste.
  Diplôme d'ingénieur chimiste au printemps 1960
  Divers stages de vacances (IBM, Alusuisse)
- 1960-1962 Assistant à l'Institut de Métallurgie à l'Ecole Polytechnique Fédérale de Zurich (professeurs Durrer et Marincek).
  Thèse de doctorat (thème: L'hydrogène dans les fontes) soutenue en 1966.
- 1963 Service militaire au Luxembourg

Carrière professionelle

- 1963-1964 Chercheur à l'IRSID (Institut de Recherches Sidérurgiques) à St. Germain-en-Laye (F). (Thème: Equilibres thermodynamiques dans le haut-fourneau).

- 1964 Retour en Suisse et entrée au centre *Recherche et Développement* du Groupe **SULZER** à Winterthur. Ici
  - chef du groupe "matériaux pour réacteurs nucléaires" de Therm-Atom
  - implémentation et direction d'un nouveau département "corrosion & protection contre la corrosion" au service du groupe Sulzer
  - directeur du département "corrosion et chimie analytique"
  - implémentation d'un nouveau département "écosystemes": activités principales: analyses d'impact, éco-design, système de management environnemental (ISO 14000), audits à l'intérieur du Groupe Sulzer.

- 1998 retraité depuis le 1er. juin 1998.

Activités générales entre 1994 et 1995: recherche, consulting (choix des matériaux, recommandations pour toutes les divisions du groupe, càd. pompes, génie chimique, pétrole, bâtiment, centrales thermiques, turbines à gaz, compresseurs etc.; Sulzer *Rotec* est un fournisseur de "rotating equipment for the oil and gas industry"), expertises, formation (cours de formation à l'intérieur du Groupe Sulzer et à l'extérieur [Institut DECHEMA, Ecole Polytechnique Fédérale de Lausanne etc.]).

Laboratoire de chimie analytique: évolution d'un laboratoire industriel classique à un laboratoire moderne spécialisé dans les analyses environnementales (émissions, immissions, pollutions dans le sol etc.).

Domaines de recherche et expertise

Entr'autres: Inhibition de la corrosion (traitement de l'eau des circuits industriels, y inclus circuits dans les centrales thermiques au fuel et nucléaires); corrosion dans les GV des centrales nucléaires de la filière gaz-graphite et à eau pressurisée (collaboration intense avec EdF et le CEA); corrosion sous contrainte des aciers inoxydables; fragilisation par l'hydrogène (usines d'eau lourde); corrosion microbienne; traitements de surface (rêtements métalliques et organiques); protection cathodique; développement de matériaux métalliques (aciers austénitiques, austéno-ferritiques, martensitiques); érosion-corrosion (pompes d'injection pour les applications off- et on-shore).

Nombreuses publications (de l'ordre de 60) et conférences internationales.

Management

Implémentation d'un système assurance qualité à l'intérieur du département *Corrosion et Chimie* (1990)
Implémentation d'un système de gestion intégré de la qualité, de la sécurité et de l'environnement (ISO 9000 et 14001) dans le centre Recherche et Développement (1997).

Activités au niveau de sociétés technico-scientifiques:

- représentation de la Suisse dans le Comité de Gestion de la *Fédération Européenne de la Corrosion* de 1973 à 1994 (de 1980 à 1985 en tant que président)
- membre de la commission "collaboration européenne dans le domaine de la technique" de de *l'Académie Suisse des Sciences Techniques*
- de 1977 à 1993 président de la *Société Suisse pour les Traitements de Surface*, depuis, président d'honneur de cette société
- depuis 1990 activités dans le cadre des *programmes de recherche européens COST* : représentant de l'Office Fédéral de l'Education et de la Science dans différents organes COST, en particulier président du Comité Technique COST du domaine "Matériaux" (depuis 1998).

Distinctions

- Médaille de mérites de la *Fédération Européenne de la Corrosion FEC*
- Diplôme d'honneur de la *Société Allemande pour les traitements de Surface* pour "la promotion des contacts internationaux".
- Président d'honneur de la *Société Suisse pour les traitements de surface*.

Situation actuelle (Septembre 1999)

- retraité depuis juin 1998
- ingénieur conseil à titre privé (nom du bureau: *Materials Consulting Services*)
- continuation des activités au niveau COST (politique de recherche européenne dans le domaine des matériaux), en particulier
- président du Comité technique COST Matériaux
- délégué suisse dans le comité de gestion de l'Action COST 520 sur "interactions entre les microorganismes et les matériaux"
- consultant auprès de l'Office Fédéral de l'Education et de la Science dans le domaine des matériaux

Langues

Allemand, français et anglais (parlé et écrit)
Italien: notions.

Intérêts personnels

Musique (classique), politique, (bonne) cuisine, nature, alpinisme haute-montagne, voyages.