

CODE

Center for the study of Organizations and Decisions in Economics

ACTIVITY REPORT 1997

TABLE OF CONTENTS :

- ¥ [1. INTRODUCTION](#)
- ¥ [2. MEMBERS](#)
 - [2.1. RESEARCHERS](#)
 - [2.2. ACADEMIC VISITS](#)
 - [2.3. ADMINISTRATIVE STAFF](#)
- ¥ [3. AREAS OF RESEARCH](#)
- ¥ [4. RESEARCH PROJECTS](#)
- ¥ [5. PUBLICATIONS AND WORKING PAPERS](#)
- ¥ [6. EDITORIAL ACTIVITIES](#)
- ¥ [7. CONFERENCES AND MEETINGS](#)
- ¥ [8. SEMINARS](#)
- ¥ [9. ORGANIZATION OF CONFERENCES](#)
- ¥ [10. STAGES OF RESEARCH](#)
- ¥ [11. PH.D. THESIS](#)

1. INTRODUCTION

The Center for the Study of Organizations and Decisions in Economics (CODE) is a research center at the Universitat Autònoma de Barcelona, created in 1995 to promote high quality research in the theory of economic decisions and organizations. Since the beginning of its activities, CODE's main goal is to provide an environment allowing excellence in research as measured by the international standards of scientific quality.

CODE's permanent members belong to the Department of Economics at the UAB, which has pioneered in Economics Research for the last twenty years. The Department is still the natural

meeting point for the activities, like undergraduate and doctoral education, for which diversity of interests and abilities are most important.

The activity report strives to be a regular publication that our colleagues look forward to be available. The present edition cover the activities performed during 1997.

In its third year of activities, CODE has hosted 19 visitors from all over the world for stays ranging from one month to one year. Research activities can be grouped in five areas: Financial Economics/Macroeconomics, Industrial Organization, Mathematical Economics, Public Economics and Social Choice/Game Theory. All this research is developed through 15 research project financed by the Spanish Ministry of Education, the Catalan Government (Generalitat de Catalunya) and the European Union. It has materialized in 24 papers published in the leading economic journals and the participation of CODE members in the main academic meetings, both as organizers and as participants.

All in all we hope this report reflects the commitment of CODE to build an increasingly consistent research center that can be taken as a reference point of top quality research within in Europe and beyond.

2. MEMBERS

2.1. RESEARCHERS:

¥ **BARBERÀ SÁNDEZ**, Salvador

Ph.D.: Northwestern University (1975)

Fields of Specialization: Public Economics, Social Choice.

¥ **CABALLÉ VILELLA**, Jordi

Ph.D.: University of Pennsylvania (1989)

Fields of Specialization: Finance, Economic Growth

¥ **FRADERA GARRIGA**, Isabel

Ph.D.: Northwestern University (1980)

Fields of Specialization: Mathematical Economics, Imperfect Competition.

¥ **MACHO-STADLER**, Inés

Ph.D.: École des Hautes Études en Sciences Sociales, Paris (1989)

Fields of Specialization: Economics of Information, Industrial Organization, Public Economics.

¥ **MARTÍNEZ GIRALT**, Xavier

Ph.D.: CORE, Université Catholique de Louvain (1988)

Fields of Specialization: Industrial Organization, Health Economics.

¥ **MARTÍNEZ LEGAZ**, Juan Enrique

Ph.D.: Universitat de Barcelona (1981)

Fields of Specialization: Optimization Theory, Convex Analysis, Mathematical Economics.

¥ **MASSÓ CARRERAS**, Jordi

Ph.D.: State University of New York at Stony Brook (1988)

Fields of Specialization: Game Theory, Industrial Organization, Social Choice.

¥ **OLIVELLA CUNILL**, Pau

Ph.D.: Northwestern University (1989)

Fields of Specialization: Economics of Information, Public Economics.

¥ **PÉREZ-CASTRILLO**, David

Ph.D.: École des Hautes Études en Sciences Sociales, Paris (1991)

Fields of Specialization: Economics of Information, Industrial Organization, Game Theory.

¥ **PONSATÍ OBIOLS**, Clara

Ph.D.: University of Minnesota (1988)

Fields of Specialization: Game Theory.

2.2. ACADEMIC VISITS:

¥ **AZÉ**, Dominique

Université de Perpignan

March

¥ **BERGIN**, James

Queen's University, Ontario, Canada

September 96 to August 97

¥ **BLOCH**, Francis

Groupe HEC, France
Department of Finance and Economics
February- March

¥ **CALABUIG**, Vicenç

Universitat de València, Spain
March-June

¥ **CECHLAROVA**, Katarina

P.J. Safarik University, Slovakia
April

¥ **DUTTA**, Bhaskar

Indian Statistical Institute, India
June-July

¥ **HAMMOND**, Peter

Stanford University, USA
May-June

¥ **HERRERO**, Carmen

Universitat d'Alacant, Spain
October-December

¥ **IÑARRA**, Elena

Universidad del País Vasco, Spain
February

¥ **JOHN**, Reinhard

University of Bonn, Germany
May

¥ **KRISHNAN**, Murugappa

University of Minnesota, USA
January

¥ **LaCASSE**, Chantalle

University of Ottawa, Canada

February to April

¥ **MASCHLER**, Michael

Hebrew University of Jerusalem, Israel
September

¥ **MOULIN**, Hervé

Duke University, USA
May-June

¥ **OLIVERA**, Estela

Universidad Nacional de San Luis, Argentina
December 96 to March 97

¥ **OVIEDO**, Jorge

Universidad Nacional de San Luis, Argentina
February-March

¥ **PEREA**, Andrés

University of Maastricht ,The Netherlands
September 97 to June 98

¥ **SEN**, Arunava

Indian Statistical Institute, India
May-June

¥ **WETTSTEIN**, David

University of Ben-Gurion, Israel
April

2.3. ADMINISTRATIVE STAFF

¥ **IGLESIAS HERNÁNDEZ**, Conxa

¥ **VALLEJO TEY**, Marta

3. AREAS OF RESEARCH

¥ Financial Economics-Macroeconomics

- 1.Security Design with Several Projects and Insider Trading (Jordi Caballé)
- 2.The Sources of Volatility in Financial Markets with Insider Trading (Jordi Caballé)

¥ Industrial Organization

- 1.Iceberg Transport Costs (Xavier Martinez-Giralt)
- 2.The impact of the "Chunnel" on the Location of Production Activities (Xavier Martinez-Giralt)
- 3.On the Effects of Antidumping Legislation (Xavier Martinez-Giralt)
- 4.Telecommunication Technologies and Location of Activities (Xavier Martinez-Giralt)
- 5.Simple Mechanisms to Implement Stable Situations in Labor Markets (David Pérez-Castrillo)

¥ Mathematical Economics

- 1.Convexity in Cooperative Game Theory (Isabel Fradera and Juan Enrique Martínez-Legaz)

¥ Public Economics

- 1.Optimal Inspection Policies (Inés Macho-Stadler and David Pérez-Castrillo)
- 2.Fiscal Amnesties (Pau Olivella)
- 3.Public and Private Provision of Health Care (Xavier Martínez-Giralt)
- 4.Waiting Lists in the Health Care System (Pau Olivella)
- 5.Provision of Incentives in Health Care Systems (Inés Macho-Stadler)

¥ Social Choice Theory-Game Theory

- 1.Non-manipulable Voting Mechanisms and Feasibility Restrictions (Salvador Barberà and Jordi

Massó)

2.Cooperative Game Theory and Compromise Values (Jordi Massó)

3.Axiomatic Analysis of Iterative Negotiations (Clara Ponsatí)

4.Non-cooperative Negotiation Games with Outside Options (Clara Ponsatí)

4. RESEARCH PROJECTS

A brief description is given of the research projects in which the members of CODE are involved. These projects are financed by the Ministry of Education and Science through the Inter-Ministerial Commission of Science and Technology, by the Government of Catalonia and by the European Community.

Title: Cooperation and Competition: Studies on Strategic Behaviour and Institutional Design.
DGICYT PB96-1192 (3 years)

Team coordinator: Salvador Barberà

Description: This project study games and institutions from a strategic viewpoint. We try to overcome the rigid separation between what is cooperative and what is non-cooperative and mix both types of considerations. The implentability cooperative objectives and the social consequences of non-cooperative processes are examples of questions we ask both for abstract games and for specific institutional contexts. The latter include large markets, voting situations, firms and different governmental policies.

Title: Strategic Behavior and Mechanism Design

DGICYT PB92-0590 (4 years)

Team coordinator: Salvador Barberà

Description: This project analyzes various problems of design of economic institutions and decision making, taking into account in particular the strategic behavior of agents.

The precise issues and hypotheses addressed in this project are subdivided into the following eight sub-projects: 1) structure of organizations; 2) methods of voting; 3) methods of negotiation; 4) matching models; 5) problems of implementation in economic environments; 6) individual preferences and collective decisions; 7) licensing contracts; 8) dynamic analysis of fiscal amnesties.

Title: Institutions and Markets as Games

Commission of the European Communities, ERBCHRXCT92055 (3years)

Team coordinator: Salvador Barberà

Description: The objective of this research is the application of recent theories in game theory to the analysis of various important issues pertaining to institutions. Such issues are the following: a) decentralization and the distribution of power and responsibilities; b) communication and asymmetric information; c) bounded rationality and information processing; d) the role of conventions and culture

in institutions; e) decision rules in management of organizations.

Title: Comissionat per a Universitats i Recerca. Generalitat de Catalunya

SGR96-75 (2 years)

Team coordinator: Salvador Barberà

Description: Support to top quality research groups

Title: Association Sud-Europeen d'Economie Theorique -ASSET-
CEE-HCM CHRXCT940465

Team coordinator: Salvador Barberà

Description: Network.

Title: Analysis of Macroeconomic Fluctuations and Economic Growth

DGES - MEC, PB95-0130-C02-01 (1 year)

Team coordinator: Jordi Caballé

Description: The main goal of this project is to study, both theoretical and empirically, the determinants of aggregate fluctuations and long-run growth. The topics considered are: a) Financial Markets and Macroeconomic Stability, b) Growth and Financial Markets, c) Institutions for Macroeconomic Policy, d) Endogenous Economic Fluctuations and e) Growth and Regional Convergence.

Title: Inter-Firm Relationships: Market Structure and Competition Policy

Commission of the European Communities, ERBCHRXCT930297 (3years)

Team coordinator: Xavier Martinez-Giralt

Description: This project analyzes the coordination among firms in strategic decision making (especially R&D and production). In particular the analysis focuses on the relationship between market structure and the structure of such strategic decision making.

Title: The Impact of the 'Chunnel' on the Location of Production Activities"

DGICYT HP94-011 (1 year)

Team coordinator: Xavier Martínez-Giralt

Description: This project plans to analyze the impact of a structural change on the location of production activities. These changes relate to the building of infra-structures (Channel tunnel, High Speed train, motorways, etc.) that imply important savings at least in terms of time. The consequences are two-fold. On the one hand, the need to locate close to the demand is not as crucial as could have been before; on the other hand, making the demand closer, gives incentives to locate near it. The net effect may go either way.

An important interpretation of the model relates to barriers to economic integration among regions. Facilities that may become available in one region may give rise to positive externalities if they incentivate the location of new industries in the neighboring regions. They may also impose negative externalities if such facilities turn into a relocation of industries from the neighboring regions towards the one providing the new facilities. Whether the latter is always a reasonable expected effect, is the focus of the project.

Title: Convexity and Indivisibilities in Cooperative Games: Theory and Economic Applications.
DGICYT PB95-0679 (3 years)

Team coordinator: Juan E. Martinez Legaz

Description: Analysis of the role of convexity in cooperative game theory and its implications for its economics models.

Title: Programa de Cooperación Científica con Iberoamérica

Team coordinator: Jordi Massó

Description: Cooperation program UAB-Universidad Nacional de San Luís, Argentina.

Title: Barcelona-Jocs

Team coordinator: Jordi Massó

Description: Series of seminars. The last Monday of every month in Barcelona.

Title: Programa Cátedra FBBV

Team coordinator: Jordi Massó

Description: Grants for foreigner researchers in Spain.

Title: Reforming Health Care Systems: Public Insurance, Private Insurance and Competition. HP 1996-0061. (1 year)

Team coordinator: Xavier Martínez-Giralt

Description: Bilateral Research Project (Spain/Portugal)

Title: Duopolio Mixto en Mercados de Salud. HP 1997-0062. (1 year)

Team coordinator: Xavier Martínez-Giralt

Description: Bilateral Research Project (Spain/Portugal)

Title: Competencia por los Factores y Decisiones de Producción. HP 1997-0061. (1 year)

Team coordinator: Inés Macho-Stadler

Description: Bilateral Research Project (Spain/Portugal)

5. PUBLICATIONS AND WORKING PAPERS

¥ **BARBERÀ**, Salvador

- (Joint with J. MASSÓ and A. NEME), "Voting under Constraints", *Journal of Economic Theory*, 76.
- (Joint with B. GRODAL), "Preference for Flexibility and the Opportunities of Choice", mimeo.
- (Joint with A. BOGOMOLNAIA and H. VAN DER STEL), "Strategy-Proof Probabilistic Rules for Expected Utility Maximizers", *Mathematical Social Sciences*, forthcoming.
- (Joint with J. MASSÓ and S. SERIZAWA), "Strategy-Proof Voting on Compact Ranges", *Games and Economic Behavior*, forthcoming.
- (Joint with J. MASSÓ and A. NEME), "Maximal Domains of Preferences Preserving Strategy-proofness for Generalized Median Voters Schemes", *Social Choice and Welfare*, forthcoming.
- (Joint with M. MASCHLER and J. SHALEV), "Voting for Voters: A Model of Electoral Evolution", mimeo.

¥ **CABALLÉ**, Jordi

- "Alternative Models of Control: Efficiency, Accessibility and Market Failures. Comment", In: *Property Rights, Incentives and Welfare*, (edited by John Roemer). McMillan, London.
- (Joint with A. POMANSKY), "Complete Monotonicity, Background Risk, and Risk Aversion.", *Mathematical Social Sciences*, 34.
- "Growth Effects of Taxation under Altruism an Low Elasticity of Intertemporal Sustitution", *Economic Journal*, forthcoming.

¥ **MACHO STADLER**, Inés

- (Joint with J.D. PÉREZ-CASTRILLO), *An Introduction to the Economics of Information*, Oxford University Press..
- (Joint with J.D. PÉREZ CASTRILLO), "Optimal Auditing with Heterogeneous Incomes Sources",

International Economic Review, 38.

- (Joint with J.D. PÉREZ-CASTRILLO), "Centralized and Decentralized Contracts in Moral Hazard Environments", Journal of Industrial Economics, forthcoming.
- (Joint with J.D. PÉREZ-CASTRILLO and C. PONSATÍ), "Stable Multilateral Trade Agreements", Economica, forthcoming.
- (Joint with M.P. ESPINOSA and I. AGUIRRE), "Strategic Entry Deterrence through Spatial Price Discrimination", Regional Science and Urban Economics, forthcoming.
- (Joint with F. BARROS), "Competition for Managers and Product Market Efficiency", Journal of Economics and Management Strategy, forthcoming.
- "Incentivos en los servicios sanitarios", Calidad y costes en la contratación de servicios de salud, edited by Pere Ibern, Ed. Springer-verlag, forthcoming.

✂ **MARTÍNEZ GIRALT**, Xavier

- (Joint with P.P. BARROS), "On the Effects of AntiDumping Legislation", Regional Science and Urban Economics, forthcoming.
- (Joint with P.P. BARROS), "Transport Technologies and Location", mimeo UAB.
- (Joint with J.M. CHAMORRO), "Telecommunication Technologies and Urban Spatial Structure", WP 368.97, UAB..
- (Joint with J.M. USATEGUI), "Iceberg Transport Costs. The Monopoly Case", 399.97, UAB..
- (Joint with J.M. USATEGUI), "Iceberg Transport Costs II. Duopoly", mimeo.

✂ **MARTÍNEZ LEGAZ**, Juan Enrique

- "Lexicographical Characterization of the Faces of Convex Sets", Acta Mathematica Vietnamica, 22.
- (Joint with I. SINGER), "An Extension of D.C. Duality Theory, with an Appendix on *-Subdifferentials", Optimization, 42.
- (Joint with I. SINGER), "On Conjugations for Functions with Values in Extensions of Ordered Groups", Positivity, 1.
- "Characterizations of R-Evenly Quasiconvex Functions", Journal of Optimization Theory and Applications, 95.

- "Two Remarks on Totally Balanced Games", TR#317, Department of Mathematics, The University of Texas, Arlington.

¥ **MASSÓ**, Jordi

- (Joint with B. DUTTA), "Stability of Matchings when Individuals have Preferences over Colleagues", *Journal of Economic Theory*, 75.

- (Joint with S. BARBERÀ and A. NEME), "Voting under Constraints", *Journal of Economic Theory*, 76.

- (Joint with S. BARBERÀ and S. SERIZAWA), "Strategy-Proof Voting on Compact Ranges", *Games and Economic Behavior*, forthcoming.

- (Joint with S. BARBERÀ and A. NEME), "Maximal Domains of Preferences Preserving Strategy-Proofness for Generalized Median Voter Schemes", *Social Choice and Welfare*, forthcoming.

¥ **OLIVELLA**, Pau

- (Joint with M. PASTOR), "Cost Reducing Strategies", WP 402.97, UAB-IAE.

¥ **PÉREZ CASTRILLO**, David

- (Joint with I. MACHO-STADLER), *An Introduction to the Economics of Information*, Oxford University Press.

- (Joint with I. MACHO-SATDLER), "Centralized and Decentralized Contracts in Moral Hazard Environments", *Journal of Industrial Economics*, forthcoming.

- (Joint with I. MACHO-STADLER), "Optimal Auditing with Heterogeneous Incomes Sources", *International Economic Review*, 38.

- (Joint I. MACHO-STADLER and C. PONSATÍ), "Stable Multilateral Trade Agreements", *Economica*, forthcoming.

¥ **PONSATÍ**, Clara

- (Joint with J. WATSON), "Multiple-Issue Bargaining and Axiomatic Solutions" *International Journal of Game Theory*, 26.

- "Compromise vs Capitulation in Bargaining with Incomplete Information", *Annales d'Economie et de Statistique*, forthcoming.

- (Joint with J. SÁKOVICS), "Rubinstein Bargaining with Two-Sided Outside Options", *Economic*

Theory, forthcoming.

- (Joint with J. SÁKOVICS), "Bargaining in a Changing Environment", mimeo.

- (Joint I. MACHO-STADLER and D. PÉREZ-CASTRILLO), "Stable Multilateral Trade Agreements", *Economica*, forthcoming.

6. EDITORIAL ACTIVITIES

✂ **BARBERÀ**, Salvador

✂ Editor:

- REVISTA ESPAÑOLA DE ECONOMÍA.

✂ Associate Editor:

- SOCIAL CHOICE AND WELFARE.

- MATHEMATICAL SOCIAL SCIENCES.

- ECONOMIC THEORY.

- JOURNAL OF PUBLIC ECONOMIC THEORY.

✂ Advisory Board:

- THEORIA

- DERECHOS Y LIBERTADES .

✂ **CABALLÉ**, Jordi

✂ Editorial board:

- REVISTA ESPAÑOLA DE ECONOMÍA

- INVESTIGACIONES ECONÓMICAS

✂ **MACHO STADLER**, Inés

✂ Co-editor:

- REVISTA ESPAÑOLA DE ECONOMÍA

✂ Editorial board:

- REVUE ECONOMIQUE

¥ **MARTÍNEZ LEGAZ**, Juan Enrique

¥ Editorial board:

- OPTIMIZATION

- JOURNAL OF CONVEX ANALYSIS

¥ **MASSÓ**, Jordi

¥ Editorial committee:

- INVESTIGACIONES ECONÓMICAS

¥ **PÉREZ CASTRILLO**, David

¥ Editorial board:

- REVISTA ESPAÑOLA DE ECONOMÍA

7. CONFERENCES AND MEETINGS

CODE members have attended the main conferences organized along the year. Among these we may highlight,

-The 3rd. International Meeting of the Society for the Advancement of Economic Theory

Antalya, Turquia.

- III Encontro Galego de Xóvenes Investigadores de Análise Económica

Vigo, Spain.

- Ciclo de Conferencias en el Instituto Juan March y el Centro de Estudios Avanzados en Economía.

Madrid, Spain.

- III Simposio sobre Igualdad y Distribución

Fundación Argentaria

Madrid, Spain.

- Econometric Society European Meeting

Toulouse, France.

- ASSET Meeting

Marseille, France.

- Workshop on Statistical Inference for Mathematical Finance

Barcelona, Spain.

- 24th. EARIE Conference

Leuven, Belgium.

- Congrés Internacional d'Economia de la Catalunya Central

Manresa, Spain.

- II Jornadas de Economía Laboral

Bilbao, Spain.

- I Jornada sobre Economia Social i Sistema Sanitari

Barcelona, Spain.

- International Conference on Health Economics

Evora, Portugal.

- XVII Jornadas de Economía de la Salud

Murcia, Spain.

- Informes San Diego Spring

San Diego, USA.

- Workshop on Scheduling & Heuristic Search

Riverside, USA.

- 16th. International Symposium on Mathematical Programming

Laussane, Switzerland.

- XXII Simposio de Análisis Económico

Universitat Autònoma de Barcelona

Bellaterra, Spain.

- Jornada sobre Economia Social i Sistema Sanitari

Centre Cultural de la Caixa de Catalunya

Barcelona, Spain.

- Conference on Matching

Pittsburgh, USA.

- 6th. Workshop on Interfirm Relationships: Market Structure and Competition.

Bilbao, Spain.

- I CODE CONFERENCE

Barcelona, Spain

8. SEMINARS

¥ **BARBERÀ**, Salvador

- Universidad de Granada, Spain.

- Barcelona-Jocs, Barcelona, Spain.

¥ **CABALLÉ**, Jordi

- Oxford University, Oxford, U.K.

- Seminar of the Editorial Board of "Investigaciones Económicas", Madrid, Spain.

¥ **MACHO-STADLER**, Inés

- Universidad Complutense de Madrid, Spain.
- Universitat Pompeu Fabra, Barcelona, Spain.

¥ **MARTÍNEZ-GIRALT**, Xavier

- Universidade Nova de Lisboa, Portugal.

¥ **MARTÍNEZ-LEGAZ**, Juan Enrique

- University of Texas at Arlington, USA.
- Universidad de Salamanca, Spain.
- Universidad de Sevilla, Spain

¥ **MASSÓ**, Jordi

- Universitat d'Alacant, Spain.
- Barcelona-Jocs Seminar (organization). Barcelona, Spain.
- Universidad Nacional de San Luis, Argentina.

¥ **OLIVELLA**, Pau

- Universitat Pompeu Fabra, Barcelona, Spain.

¥ **PÉREZ-CASTRILLO**, David

- Universitat Pompeu Fabra, Barcelona, Spain.
- Barcelona-Jocs, Barcelona, Spain.

¥ **PONSATÍ**, Clara

- Universitat de València, Spain.

9. ORGANIZATION OF CONFERENCES

¥ "BARCELONA-JOCS"

Academic year 1997/98

Organizer: Jordi Massó

BARCELONA-JOCS is a series of seminars attended by researchers from the following six academic institutions located in Barcelona metropolitan area and Girona: Institut d'Anàlisi Econòmica (CSIC),

Universitat de Barcelona, Universitat Autònoma de Barcelona, Universitat Politècnica de Catalunya, Universitat Pompeu Fabra and Universitat de Girona. It started two years ago and it consist in a monthly meeting (the last Monday of every month). Each session has two speakers, an insider from one of Barcelona institutions and an outsider from anywhere else. The seminars are hold at the Institut d'Estudis Catalans, downtown Barcelona.

¥ "CONFERENCE: MAXIMIZATION AND THE ACT OF CHOICE by Prof. AMARTYA SEN "

May 15

Co-organizer joint with Institut Univesitari d'Estudis Europeus
Bellaterra, Barcelona, Spain

¥ "CONGRÉS INTERNACIONAL D'ECONOMIA DE LA CATALUNYA CENTRAL"

May 30-31

Manresa, Barcelona
Co-organizer joint with Caixa de Manresa, CREI and IAE.

¥ I CODE CONFERENCE

6-10 June, 1997

Organizers: Salvador Barberà, Xavier Martínez-Giralt

¥ "ESEM 97. ECONOMETRIC SOCIETY EUROPEAN MEETING"

August 27-30, 1997

Toulouse, France .

Members of the Programme Committe: Salvador Barberà, Jordi Caballé, Inés Macho-Stadler.

¥ "16th. INTERNATIONAL SYMPOSIUM ON MATHEMATICAL PROGRAMMING"

August 25-29, 1997

Laussane, Switzerland

Organizer of the sessions Generalized Convexity I-XI: Juan Enrique Martínez-Legaz

¥ "24th. ANNUAL CONFERENCE OF THE EUROPEAN ASSOCIATION FOR INDUSTRIAL ECONOMICS (EARIE)"

August 31 to September 3, 1997,

Leuven, Belgium.

Members of the Programme Committe: Inés Macho-Stadler, David Pérez-Castrillo.

10. STAGES OF RESEARCH

¥ **BARBERÀ**, Salvador

Northwestern University
USA
One month

University of Copenhagen
Denmark

¥ **MARTÍNEZ GIRALT**, Xavier

Universidade Nova de Lisboa
Lisboa, Portugal
One month

¥ **MARTÍNEZ LEGAZ**, Juan Enrique

University of Texas at Arlington
Texas, USA
One month

PJ Safarik University
Kosice, Eslovaquia
Two weeks

¥ **MASSÓ**, Jordi

Universidad Nacional de San Luis
Instituto de Matemáticas Aplicadas
San Luis, Argentina
One month.

11. ADVISING PH.D. THESIS

✂ **CABALLÉ**, Jordi

Advisor of JAIME ALONSO CARRERA. "Essays on Two-Sector Models of Endogenous Growth" (Universitat Autònoma de Barcelona). Grade: Apto Cum Laude by unanimity.

✂ **MARTÍNEZ-GIRALT**, Xavier

Advisor of J.M CHAMORRO. "Essays on Spatial Economics" (Universitat Autònoma de Barcelona). Grade: Apto Cum Laude by unanimity.

✂ **MARTÍNEZ-LEGAZ**, Juan Enrique

Advisor of A. MESSEGUER. "Dual Representation of Games and Its Applications " (Universitat Autònoma de Barcelona). Grade: Apto Cum Laude by unanimity.

✂ **MASSÓ CARRERAS**, Jordi

Advisor of D. BERGA COLOM. "Maximal Domains and Strategy-Proffness in Public Good Economies" (Universitat Autònoma de Barcelona). Grade: Apto Cum Laude by unanimity.

✂ **PONSATÍ OBIOLS**, Clara

Advisor of D. CARDONA COLL. "Essays on Non-Cooperative Multilateral Bargaining" (Universitat Autònoma de Barcelona). Grade: Apto Cum Laude by unanimity.