



**THE ECONOMIC AND SOCIAL RESEARCH INSTITUTE**

# **Report of the Council to the Members**

**FOR THE YEAR ENDED 31 DECEMBER 1986**

THE ECONOMIC AND SOCIAL RESEARCH INSTITUTE  
COUNCIL 1986-87

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- T. P. LINEHAN, B.E., B.SC., *Director, Central Statistics Office.*
- \*D. F. McALEESE, B.COMM., M.A., M.ECON.SC., PH.D., *Whately Professor of Political Economy, Trinity College, Dublin.*
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- \*B. M. WALSH, B.A., M.A., PH.D., *Professor, National Economics of Ireland and Applied Economics, University College, Dublin.*
- T. WALSH, M.AGR.SC., PH.D., D.SC., M.R.I.A.
- \*REV. C. K. WARD, B.A., S.T.L., PH.D., *Professor, Department of Social Science, University College, Dublin.*
- P. A. WHITE, B.COMM., D.P.A., *Managing Director, Industrial Development Authority, Dublin.*

\*Member of Executive Committee.

*NOTICE OF ANNUAL GENERAL MEETING*

Notice is hereby given that the Twenty-eighth Annual General Meeting of The Economic and Social Research Institute (Limited Company registered in Dublin, Registration No. 18269), will be held at the Registered Office at 4 Burlington Road, Dublin 4, on Tuesday, 30 June 1987, at 4.30 p.m.

*AGENDA*

1. Election of President
2. Minutes of Last Meeting
3. Accounts and Balance Sheet for the year ended 31 December 1986
4. Report of the Council to the Members
5. Election of Members to the Council
6. Fixing the Auditors' remuneration

By order of the Council,

J. ROUGHAN,  
*Secretary.*

*Registered Office,  
4 Burlington Road,  
Dublin 4.*

*9 June 1987.*

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# THE ECONOMIC AND SOCIAL RESEARCH INSTITUTE

## TWENTY-SEVENTH ANNUAL REPORT

*for the year ended 31 December 1986*

### REPORT OF THE COUNCIL

#### INTRODUCTION

THE year 1986 was one of high productivity in terms of publications by Institute staff. The results of new research published during the year emphasised the ESRI's central objective to undertake policy-oriented research relevant to the many major problems of the Irish economy and society. The *Medium-Term Outlook: 1986-1990*, which was the first issue in what is intended to be an annual series, charted possible scenarios for the economy over the next five years. The study on the national debt analysed the effect of the increasing volume of public borrowing. The special Thomas Davis series of lectures *Ireland in Transition* broadcast on RTE radio, on the occasion of the ESRI's 25th anniversary, was published by Mercier Press Ltd., during the year. It provides an overview of the major economic and social developments in Ireland over the last 25 years. The reports on traveller families and drug use among young adults published during the year were examples of particular areas of deprivation investigated by the staff of the Institute. In addition to these, work was completed on several other research projects concerning employment and unemployment, industrial development, agriculture and fisheries, the international environment, education, income continuance and poverty. These publications are reviewed elsewhere in the Report. Major new projects commenced during the year included a survey of income distribution, poverty and use of state services, which was previewed in the 1985 *Annual Report*, and the consequences of cross border trade between the Republic and Northern Ireland commissioned by the European Economic Community.

The year 1986 was also one of innovation and planning for the future. The special 25th Anniversary Fund established under the Chairmanship of Mr T. O Cofaigh, Governor of the Central Bank of Ireland, was an unqualified success. The target of £¼ million set would be met over the five-year period of the fund's operation. As a result the Institute has begun the installation of a comprehensive computer and office system, replacing the existing obsolete equipment. The Institute's research work is heavily dependent on computing facilities and the new independent computing system provides the flexibility within the organisation to develop its own information systems and to increase its services to other organisations in the areas of data preparation, validation and analysis. The Council wishes to acknowledge the financial support received from firms and organisations throughout the country and to thank them for their very generous contributions. A number of subscribers were outstanding in their generosity. Five contributed £10,000 or more and nineteen contributed £5,000 or more. Many other subscribers were just as generous in relation to their size. A list of contributors is provided in Appendix A, which includes all but a few who wished to remain anonymous.

During 1986 the Institute's Research Plan for 1986-1990 was approved by the Executive Committee. The investigations and consultations undertaken in the preparation of the Plan were detailed in the *Annual Report* for 1985. The following four themes were selected as central to the Institute's research efforts over the five-year period of the programme:

- (i) *Increasing the Growth of Output and Employment*  
Given that Ireland is only a semi-developed economy, with a large labour surplus and low income per capita relative to its European partners, the need for accelerating the rate of economic growth is obvious enough. The part that research can play is to provide a clearer understanding of the constraints and assessment of the appropriate policies, both macro and micro, to mobilise the available resources of enterprise, labour, technology, etc.
- (ii) *Increasing Efficiency, with Special Regard to the Public Sector*  
The areas most often mentioned where research would be likely to contribute more were public expenditure and taxation. Other important areas include the labour market and the non-traded services sector.
- (iii) *The EEC Dimension*  
Apart from the on-going work of assessing international trends, the priorities here would be in relation to EEC developments. Research is needed to help Irish policymakers contribute to shaping EEC policies to Ireland's advantage, as well as to assess the impact on Ireland of such policies, once settled, and how Ireland can best respond to them.
- (iv) *Increasing Economic and Social Equality*  
While in some respects increased equality might conflict with economic growth, nevertheless there are many types of inequality that are economically dysfunctional. Moreover, economic progress contributes its own range of social problems, which cannot be left to fester. In the long run, if social support for economic growth is to be adequately mobilised, there must be a conviction that its fruit will be widely shared. Research under this theme would be concerned not only with the nature, extent and determinants of poverty and inequality, but would also focus on the effectiveness of the social policy response.

The Plan and the background analysis were published in October 1986. The Programme of Research is as follows:

*Programme of Research 1986-1990*

\* Denotes projects approved and in progress

*I. Economic Forecasting and Modelling*

- \*1. *Quarterly Economic Commentary* (and associated surveys of business and consumer sentiment and investment; with possibility of adding a survey of stock changes)
- \*2. *Medium-Term Outlook*
- \*3. Macro-econometric and input-output modelling and applications

*II. Economic Growth*

- 1. Economic and social constraints on the creation of income and wealth
- 2. Socio-economic and cultural factors affecting entrepreneurship and innovation in Ireland
- 3. Profits and investment
- 4. Analysis of non-price aspects of competitiveness
- 5. Technology acquisition: determinants and effects
- 6. Relationship between industrial output, exports, profit repatriation and retained value added
- 7. Assessment of:
  - (i) industrial strategy (including project evaluation techniques)
  - \* (ii) agricultural strategy (in light of the changing EEC environment)
- 8. Analysis of output, employment and productivity in the services sectors (including spin-off from IDA, etc., job creation)
- \*9. Assessment of scope and method for expansion in specific traded goods activities in:
  - (i) agriculture
  - (ii) natural resources
  - (iii) manufacturing
  - (iv) export services
- 10. Supply and financing of infrastructure:
  - (i) energy
  - (ii) transport
  - (iii) telecommunications

*III. The International Environment*

- \*1. The determinants of Irish foreign trade
- \*2. Assessment of EEC policies affecting Ireland (including closer economic integration) and appropriate responses
- 3. Scope for mutually-beneficial economic co-operation between the Republic and Northern Ireland

#### *IV. Regional Issues*

- \*1. Development and analysis of regional statistics
2. Assessment of regional policy options
3. Analysis of measures to stimulate greater local participation and initiatives

#### *V. The Public Sector*

- \*1. Evaluation of the efficiency and distributional effects of major public expenditure programmes
- \*2. Analysis of incidence, incentive and equity effects of tax and social security systems
3. The scope for, and merits of, privatisation
- \*4. Evaluation of the level and burden of national debt, and the appropriate allocation as between domestic and foreign borrowing
5. The measurement of performance in state-sponsored bodies

#### *VI. Prices and Incomes*

1. The experience of pay bargaining since the abandonment of national agreements
2. Adjustment to lower price inflation
- \*3. Public and private pensions arrangements

#### *VII. Demography and Labour*

- \*1. On-going demographic analysis and projections
2. Effects on employment (including self-employment) of labour market rigidities, restrictive practices and protective labour law
3. The nature, extent and implications of changing patterns of work and employment (e.g., part-time and temporary work, early retirement, etc.)
- \*4. Study of disadvantaged labour market groups (e.g., the long-term unemployed) and implications for policy

#### *VIII. Social Policy*

1. Health:
  - (i) methods for allocating medical care resources
  - (ii) evaluation of alternatives to medical care (e.g., preventive measures)
  - (iii) techniques of management and budgeting in hospitals
- \*2. Education:
  - (i) school selection and management practices
  - (ii) impact of unequal access to education on the economy and society
3. Study of homelessness
4. Impact of changing family and marriage patterns
- \*5. Children in care
6. Voluntary social welfare bodies and their relationship to statutory bodies



7. Social factors in the design of urban and suburban developments
- \*8. Basic data and analysis of income distribution and poverty and the effects of related public policies
9. Crime:
  - (i) developments of better statistics
  - (ii) evaluation of criminal justice decision making
- \*10. Drug use and abuse

*IX. Values and Attitudes*

1. Attitudes towards social problems and social policies

*X. Data and Methodology*

1. Feasibility study of an Irish survey data archive
2. A study of interviewer effects
- \*3. Household equivalence scales for Ireland
- \*4. Statistical and econometric techniques

There would be no difficulty in adding to the list of research topics if resources were available to support a larger programme. Priorities may change over the five-year period and in that event the present programme may require adjustment. It is, however, vital that the Institute should take a reasoned and comprehensive view in advance as a guide to its future direction. This provides a framework within which new proposals can be better evaluated and helps any assessment of the need for change. The Programme of Research presupposes a modest increase over the period in the staff resources available to the Institute. The Institute intends to try to supplement internal staff resources by interesting suitable staff at the universities, other third-level institutions, and perhaps other bodies, in working on projects in the Institute's research programme.

**D**URING 1986, Institute staff published four issues of the *Quarterly Economic Commentary*, the first issue of a medium-term outlook, seven papers in the General Research Series, two papers in the Policy Research Series, two papers in the Reprint Series, two papers in the Memorandum Series, two papers in the Technical Series, and seventeen papers in scholarly journals including *The Economic and Social Review*. In addition staff delivered over forty papers to learned societies and conferences. The staff also completed several commissioned research projects and surveys for the EEC and other agencies. All of these are listed in Appendix C which includes a list of projects in progress in the Institute at 31 December 1986. Abstracts of ESRI papers published in 1986 are given in Appendix D, while outlines of new projects commenced in 1986 are given in Appendix E. The detailed material in the appendices to this Report gives a good indication of the broad range of research undertaken by ESRI staff during 1986. Here the Council wishes to highlight only a few of the more significant developments.

#### *Economic Forecasting and Modelling*

The *Quarterly Economic Commentary*, which continues to provide an ongoing analysis of current trends in the economy was supplemented by a longer-term perspective in the *Medium-Term Outlook 1986-1990*. The latter was the first volume in what is intended to be a continuing annual series. The *Outlook* examined the effects of international developments and Irish economic policies on the domestic economy over the last 5 years and discussed medium-term future scenarios. Special reviews of the Common Agricultural Policy and foreign-owned industry were included.

During the year Institute staff consolidated and developed previous work in the area of macro-economic model building. A study on multi-sector modelling of the Irish economy was published which examined, by the means of a 13-sector input-output model, the feasibility and consistency of assumptions and results of Government planning. Input-output techniques were also employed in an analysis of the Irish agricultural and food industries. Phase II of the construction of a macrosectoral model for Ireland as part of the European Model being developed by the Commission of the European Communities was initiated. The development of the ESRI medium-term model for use by the Department of Finance for projections and policy analyses was undertaken in association with departmental staff.

#### *Economic Growth*

Research during the year focused on the development of agriculture, fisheries and industry. Proposals for changes in the Common Agricultural Policy was considered, together with how Ireland might best respond to these proposals. A study of the bovine tuberculosis eradication scheme discussed the nature of bovine tuberculosis, reviewed the operation of the eradication scheme since its inauguration in 1954 and outlined the Exchequer costs to date. After an expenditure of almost £900 million at 1985 prices and the removal of almost 1.5 million reactor cattle, 2-3 per cent of cattle herds were still infected. The major defects inherent in the operation of the scheme were

examined and recommendations were made for more successful management. Special reports were completed on "The Organisation of Marine Research in Ireland" and on "Aquaculture" for the National Board for Science and Technology and the Joint Oireachtas Committee on Secondary Legislation of the EEC, respectively. Public expenditure on Irish sea fisheries, the economics of salmon fishing, the consequences for Irish fisheries of the enlargement of the EEC were also investigated.

A study of the Irish engineering industry in an international context was completed during the year. The study, which will be published during 1987, reviews the current state of the engineering industry, identifying its particular strengths, weaknesses and competitiveness. A policy approach to the industry's development will be outlined. A report on "Allocating Designation Status for Industrial Development on the Basis of the NESO Criteria" was completed for the Department of Industry, Trade, Commerce and Tourism. Studies were also completed on the demand for cold storage in Ireland, foreign-owned industry, Ireland's experience of export-oriented industrialisation, industrial policy and the public sector, alternative strategies for industrial development and attitudes towards industrial support.

#### *The International Environment*

During the year a study was begun on the consequences for cross-border trade, between the Republic of Ireland and Northern Ireland, of harmonising rates of value added tax and excise duties within the European Economic Community. The study, which was commissioned by the EEC, will examine the nature and extent of cross-border shopping by residents of the two communities and will investigate the sensitivity of trade to cross-border price differences. The proceedings of a Symposium on "Consequences of European Union" were published and included papers on the background to the goal of European union, the macroeconomic consequences of union, the economic implications of tax harmonisation and regional developments within Europe. A study of the determinants of Irish imports was also completed for publication during 1987. A study on "Research and Technological Developments in the Less Favoured Regions of the EEC", commissioned by the EEC/NBST, was submitted to the Commission.

#### *The Public Sector*

The chief areas of research undertaken during the year concerned Exchequer borrowing, public sector employment and the Civil Service superannuation scheme. The annual repayment of interest on borrowing, almost equalling the tax take from the PAYE sector, continues to be a severe drain on national resources and a major constraint on investment. The publication of the study *The National Debt and Economic Policy* provided an in-depth analysis of Exchequer borrowing and its effects. Alternative scenarios indicated that even a mild fiscal expansion would result in the national debt/GNP ratio rising inexorably. Only a more restrictive budgetary policy could halt or reverse the trend.

The study *Employment in the Public Domain in Recent Decades* provided a comprehensive picture of the numbers employed by the Central Government and local authorities. Questions about the growth in numbers and grades,

mobility of staff, male and female employment and the effect of policy initiatives were examined. Further research in progress will investigate costs and wage rates in the public sector and the financial aspects of the Irish Civil Service superannuation scheme. During 1986 a study of computerisation in the Civil Service was commenced which will examine expenditure on computer systems, staff turnover, the level of expertise available and difficulties encountered.

#### *Demography and Labour*

Comment has been made in previous reports of the close relationship which has developed between the Institute and some Government departments in recent years. This is particularly true in regard to the working relationship between the Institute and the Department of Labour. During 1986, in addition to ongoing surveys such as the annual survey of school leavers, the Institute undertook a number of surveys and studies commissioned by the department namely, Employers' Perceptions of the Effect of Labour Legislation, the Evaluation of Manpower Programmes, and Employment Incentive Schemes.

Studies were completed in respect of youth unemployment, clerical employment, training, job creation policies and the costs of unemployment which were presented at various conferences and seminars. Staff also completed studies commissioned by the OECD and the EEC on "Measures to Assist the Long-term Unemployed". A study on the "Transition from School to Work and Early Labour Market Experience" was completed for publication during 1987. Another study published during 1986 showed how the Electoral Register, might be used for estimating population and net migration and to select samples for social surveys.

#### *Social Policy*

The main thrust of research undertaken in 1986 was in relation to the areas of income distribution, drug usage, and education. The 1985 *Annual Report* gave details of preparatory work for a major study on income distribution, poverty and the use of state services to be undertaken with the assistance of the Commission of the European Communities and the Department of Social Welfare. The study is now under way and a survey of 4,000 households comprising 10,000 individuals, is in the field. While the data from the survey will be made available through interim reports, the final report is not expected until 1989. The study will report, *inter alia*, on the level of poverty and the effects of policies on taxation, social welfare, health, housing and education. The study on the *Population Structure and Living Circumstances of Irish Travellers* reported the results of the 1981 Census of Travelling People in regard to the size, composition, geographic distribution and the living conditions of traveller families. The provision of services in regard to housing, health and education to meet the needs of this uniquely disadvantaged minority living on the periphery of Irish society, was stressed. The study on the "Redistribution of Income Through State Expenditure and Taxation in the Republic of Ireland 1973-80" was also completed and submitted to the National Economic and Social Council.

The study *Smoking, Drinking and Other Drug Use Among Dublin Post-Primary School Pupils* investigated an area of growing concern in Irish society. The report

examined the incidence of drug use among young adults and associated factors. Intervention programmes were recommended to combat the spread of the use of drugs.

In education, a study on *Subject Availability and Student Performance in the Senior Cycle of Irish Post-Primary Schools* investigated the variations in the subjects available to students, those actually taken by them and academic performance in the senior cycle. The effects of personal choice, gender and social class were isolated. Amalgamation of schools or greater co-operation between schools was suggested in attempting to provide a range of subjects that would allow the expression of the diverse abilities of pupils. Other areas of policy-orientated social research nearing completion include the differentiation of pupils and curricula in Irish second-level schools, children in care, and adjustment to retirement.

#### *Data and Methodology*

The development of household equivalence scales from Irish household survey data is nearing completion for publication during 1987. Technical papers on likelihood and estimation and on the use of the TROLL computer package for database access and analysis were also completed.

#### *Commissioned Research*

During 1986 sixteen research projects were carried out for various Government departments, the Commission of the European Communities and other agencies covering topics such as marine research and aquaculture, unemployment, labour legislation, industrial support and designation of areas, redistribution of income, and project evaluations. In addition the Institute's Survey Unit undertook and analysed surveys on behalf of several outside agencies. Much of the information gathered by these surveys is of considerable interest to the Institute in implementing its own programme of research.

#### *Council Changes*

The Council wishes to record its sadness at the death in September 1986 of Professor Charles McCarthy who had been a member of the Council of the Institute since 1966. During 1986 Mrs M. Downes and Rev. Professor J. R. M. Nolan were co-opted to the Council.

#### *Final Accounts*

The Income and Expenditure Account, Balance Sheet and Auditors' Report for the year ended 31 December 1986 are given in Appendix G. Total income for the year was £1,615,605, the Government grant being £1,175,000. Income from other sources amounted to £440,605 representing 27 per cent of total income. Current expenditure for the year amounted to £1,617,885 including depreciation of £8,884. Expenditure for the year is shown less an amount of £9,203 which was charged to Economic and Social Studies in respect of salaries and wages for 1986. This charge has been waived and written off in the Balance Sheet.

Patrick Lynch

Member of Council

Eugene McCarthy

Member of Council

*Appendix A*

*CONTRIBUTORS TO THE ESRI 25TH ANNIVERSARY FUND*

THE Institute wishes to acknowledge the very generous support it has received from the following who contributed to the Institute's 25th Anniversary Fund:

Algemene Bank Nederland (Ireland) Ltd.	Hibernian Insurance PLC
Allied Irish Banks PLC	Hibernian Life Association Ltd.
ASTMS	Howmedica International Inc.
Bank of Ireland	Imperial Chemical Industries Ireland Limited
Bayer (Ireland) Ltd.	International Computers Ltd.
Beamish & Crawford PLC	IDA Ireland Limited
Becton, Dickinson & Co. Ltd.	Independent Newspapers Marketing Limited
Beecham of Ireland Ltd.	Industrial Credit Corporation PLC
Bell Advertising Ltd.	International Computers Ltd.
Alfred Bird & Sons	Irish Bank of Commerce Limited
Bord Gais Eireann	Irish Distillers Group PLC
Bord Iascaigh Mhara	Irish Glass PLC
Bowmaker Bank Limited	Irish Life Assurance PLC
Burgess Galvin & Co. Ltd.	Irish National Teachers' Organisation
Burmah-Castrol (Ireland) Ltd.	Irish Pensions Trust Ltd.
Butler & Briscoe	Irish Permanent Building Society
Calor Teoranta	Irish Sugar PLC
Campbell Catering Ltd.	Irish Tax Officials' Union
Cantrell & Cochrane Group Ltd.	Irish Transport & General Workers' Union
Carroll Industries PLC	Kerry Co-operative Creameries Limited
Cement Roadstone Holdings PLC	Lombard & Ulster Banking Limited
Central Bank of Ireland	Masterfoods Limited
Chubb Ireland Limited	Mathews Mulcahy & Sutherland Limited
Ciba-Geigy Ireland Ltd.	Merck Sharp & Dohme (Ireland) Ltd.
Citibank, N.A.	National Association of Transport Employees
Confederation of Irish Industry	National & City Brokers Ireland Ltd.
Coopers & Lybrand	New Ireland Assurance Co. PLC
Córas Iompair Éireann	Northern Bank Ltd.
Córas Tráchtála	O'Flaherty Holdings Limited
Cork Savings Bank	PA Management Consultants
John D. Coyle	Penn Chemicals B.V.
Craig Gardner & Co.	Postal and Telecommunications Workers' Union
James Crean PLC	Quinnsworth - Power Supermarkets Ltd.
Criterion Press Ltd.	Solomons, Abrahamson & Co.
J. & E. Davy	Stock Exchange - Irish Unit
Digital Equipment Ireland Ltd.	Sugar Distributors Ltd.
Dillon and Waldron Ltd.	Syntex Ireland Limited
Eason & Son Ltd.	System Dynamics Limited
Educational Building Society	Telecom Eireann
Ernst & Whinney	UDT Bank Limited
ESB Officers' Association	Ulster Bank Limited
ESSO Ireland Limited	Ulster Investment Bank Limited
Federated Union of Employers	Unidare PLC
Federated Workers' Union of Ireland	Unilever Management Services Ltd.
Oliver Freaney & Company	Voluntary Health Insurance Board
Gallaher (Dublin) Limited	Waterford Co-operative Society Limited
Gowan Group Limited	Wang Ireland Ltd.
Grassland Fertilizers Ltd.	Williams Group
Guinness + Mahon Ltd.	Wilson Hartnell Advertising & Marketing
Haughey Boland & Co.	

## Appendix B

### STAFFING

#### 1. Staff at 31 December 1986

<i>Director</i>	K. A. Kennedy
<i>Deputy Director</i>	D. Conniffe
<i>Assistant Director</i> (Administration) and Secretary	J. Roughtan
<i>Consultant</i>	R. O'Connor
<i>Research Professors</i>	E. E. Davis, D. F. Hannan (Head of Sociology and Social Policy), E. W. Henry, J. J. Sexton, B. J. Whelan (Head of Survey Unit)
<i>Senior Research Officers</i>	T. J. Baker, J. Bradley, R. Breen, J. FitzGerald, C. Hughes, M. Ross, C. T. Whelan
<i>Research Officers</i>	E. O'Malley
<i>Assistant Research Officers</i>	T. Callan, G. Keogh, K. O'Higgins, S. Scott
<i>Research Assistants</i>	S. Creighton, T. Giblin, B. Halpin, C. Marsh, T. Quinn, A. Storey, J. A. Williams
<i>Operations Manager, Survey Unit</i>	E. M. Colbert-Stanley
<i>Librarian</i>	M. Doran-O'Reilly
<i>Accounts Officer</i>	D. Hegarty
<i>Director's Secretary</i>	F. O'Sullivan
<i>Assistant Director's Secretary</i>	A. Donohoe
<i>Supervisor of Typists</i>	M. Cleary
<i>Supervisor, Machine Room, Survey Unit</i>	R. MacCarthy
<i>Clerical Officers</i>	P. Browne, M. Cagney, A. Curran, B. Forde, P. Hopkins, M. McElhone, R. Moore
<i>Clerical Assistants</i>	J. Bourke, N. Cassidy, P. Devlin, A. Donohoe, P. Hughes, G. Maloney, M. O'Sullivan, E. Power, M. Rohan, M. Swords
<i>Porters/Messengers</i>	J. Bates (Head), J. Clarke
<i>Caterers</i>	P. Hiney, A. McGowan, M. Smith (Supervisor)
<i>Cleaners</i>	M. Duffy, C. Gleeson, M. Heeney (Supervisor), B. Nolan, M. Walsh
<i>Staff members on secondment or leave of absence</i>	D. B. Rottman (University of Connecticut, Storrs), M. Wiley (Department of Health)
	* * *
<i>Post-Graduate Fellowships (abroad)</i>	M. Dillon, P. Faughnan, C. Guionard, S. McGree, C. Prendergast, M. Reidy, B. Reilly, D. Watson, M. Wynne
<i>T. K. Whitaker Research Fellowship</i>	R. Pye (Department of the Public Service)
<i>Visiting Scholar</i>	A. Matthews, Trinity College, Dublin, C. Simms, University College, Dublin

#### 2. Staff Changes

**D**R. P. BACON resigned from the staff of the Institute in August 1986. Mr T. Callan returned from leave of absence in July 1986. Mr R. Pye, Department of the Public Service, was awarded the T. K. Whitaker Fellowship and joined the staff in September 1986. Dr. D. B. Rottman went on sabbatical leave in September 1986. Ms Mary Bateman returned to the Department of Agriculture in August 1986.

The following Research Assistants left and joined the staff during the year:

<i>Left</i>	L. Hayes	<i>Joined</i>	S. Creighton
	M. Reidy		G. Marsh
			A. Storey

### 3. Other Staff Commitments

A number of staff continued to perform a limited amount of teaching in the universities and in other forums of professional or adult education. The staff of the Institute also participated in a number of national and international conferences.

- |                  |   |
|------------------|---|
| T. J. BAKER      | (i) <i>Member, National Accounts/Balance of Payments Group of National Statistics Board, Central Statistics Office</i>  |
| J. BRADLEY       | (i) <i>Editor, Journal of Irish Studies in International Affairs</i><br>(ii) <i>Member, Irish National Committee for Study of International Affairs, Royal Irish Academy</i>  |
| R. BREEN         | (i) <i>Member, Advisory Committee of the Shannon 83/86 Curriculum Development Project</i>   |
| D. CONNIFFE      | (i) <i>Joint Editor, The Economic and Social Review</i><br>(ii) <i>Council, Statistical and Social Inquiry Society of Ireland</i>   |
| E. E. DAVIS      | (i) <i>Co-Operation North, Research Adviser</i><br>(ii) <i>Adviser, Irish Peace Institute and the Joint Programme of Co-operation and Interaction in Peace and Conflict Studies</i><br>(iii) <i>Member, National Peace Foundation, Washington D.C.</i><br>(iv) <i>Member, Working Group on Values and Social Problems Indicators in Contemporary Europe, European Science Institute</i> |
| J. D. FITZGERALD | (i) <i>Member, Industry Group of National Statistics Board, Central Statistics Office</i>   |
| D. F. HANNAN     | (i) <i>Council, Economic and Social Studies</i>   |
| K. A. KENNEDY    | (i) <i>Chairman, Irish National Committee for Economic and Social Sciences, Royal Irish Academy</i><br>(ii) <i>Council, Economic and Social Studies</i><br>(iii) <i>Treasurer, Statistical and Social Inquiry Society of Ireland</i>  |
| M. F. McELHONE   | (i) <i>Council, Economic and Social Studies</i>   |
| R. O'CONNOR      | (i) <i>Vice-President, Statistical and Social Inquiry Society of Ireland</i><br>(ii) <i>Consultant to Economics and Rural Welfare Research Centre, An Foras Talúntais</i><br>(iii) <i>Member of the Department of the Public Service Committee for Administrative Research</i><br>(iv) <i>Member of National Distance Education Council</i>   |
| K. O'HIGGINS     | (i) <i>Council, Economic and Social Studies</i><br>(ii) <i>Committee on Family Research, International Sociological Association</i>   |
| M. ROSS          | (i) <i>Executive, Council of the European Movement</i><br>(ii) <i>Executive, European Federation of Economic Research</i><br>(iii) <i>Executive, Committee of Irish Cultural Foundation</i>   |
| D. B. ROTTMAN    | (i) <i>Council, Economic and Social Studies</i><br>(ii) <i>Member, Criminological Scientific Council, Council of Europe</i><br>(iii) <i>Advisory Panel on Role of the Gardaí, Dáil Select Committee on Crime, Lawlessness, and Vandalism</i><br>(iv) <i>Member, Department of Health Advisory Group on Travellers Health Status Study</i>   |
| J. J. SEXTON     | (i) <i>Member, Interdepartmental Group on Population Projections</i><br>(ii) <i>Committee on Manpower Trends, Higher Education Authority</i><br>(iii) <i>Chairman, General Medical Services (Payments) Board Investigating Group</i><br>(iv) <i>Member, National Statistics Board, Central Statistics Office</i>  |
| C. T. WHELAN     | (v) <i>President, Statistical and Social Inquiry Society of Ireland</i><br>(i) <i>Member, CSO Working Party on the Development of a Census-based Social Class Scale</i>   |



4. *Fellowships awarded in 1986*

**F**ELLOWSHIPS for post-graduate study abroad were awarded during the year as follows:

M. T. DILLON	University of California, USA, Ph.D. in Sociology
*P. FAUGHNAN	University of Pittsburgh, USA, Ph.D. in Sociology
C. GUIOMARD	Nuffield College, Oxford, M.Phil. in Economics
*S. MCGREE	University of Toronto, Canada, Ph.D. in Psychology
C. J. PRENDERGAST	Yale University, USA, Ph.D. in Economics
*M. REIDY	Nuffield College, Oxford, M.Sc. in Social Research and Social Policy
B. M. REILLY	University of Warwick, Ph.D. in Economics
D. WATSON	University of Wisconsin, USA, Ph.D. in Sociology
*M. WYNNE	University of Rochester, USA, Ph.D. in Economics

\*Indicates fellowships offered for the first time in 1986: the others are renewals.

Appendix C

PUBLICATIONS OF THE ECONOMIC AND SOCIAL RESEARCH INSTITUTE

I BOOKS AND MONOGRAPHS BY STAFF MEMBERS

1. *Europe's Future in Figures* (North-Holland Publishing Co., Amsterdam, 1962). R. C. Geary (Editor and contributor)
2. *Textbook of Economic Analysis*, Irish Edition (Macmillan & Co., London, 1963). Edward Nevin
3. *Elements of Linear Programming with Economic Illustrations* (Charles Griffin & Co. Ltd., London, 1964). R. C. Geary and M. D. McCarthy
4. *Econometric Techniques and Problems* (Charles Griffin & Co. Ltd., London, 1966). C. E. V. Leser
5. *The Motivation and Productivity of Young Women Workers* (INPC, 1969). Nóirín Ní Bhroin
6. *Four Studies in Achievement* (Allen and Unwin, 1970). M. P. Fogarty (Editor)
7. *Career, Family and Sex* (Allen and Unwin, 1970). M. P. Fogarty and Robert and Rhona Rapoport
8. *Women and Top Jobs* (Allen and Unwin for PEP, 1970). M. P. Fogarty (Editor)
9. *Rural Exodus* (Geoffrey Chapman, 1970). D. Hannan
10. *An Introduction to the Study of Personality* (Macmillan & Co., London, 1970). R. Lynn
11. *Personality and National Character* (Pergamon Press) — R. Lynn
- ✓ 12. *Productivity and Industrial Growth: The Irish Experience* (Clarendon Press, Oxford, 1971). K. A. Kennedy
- [ 13. *Principles of Farm Business and Management* (Irish University Press, 1973). R. O'Connor
- [ 14. *Elements of Linear Programming with Economic Illustrations* Second Edition, (Charles Griffin & Co. Ltd., London, 1973). R. C. Geary and J. E. Spencer
- ✓ 15. *Operational Research '72, Proceedings of Sixth International Conference of the International Federation of Operational Research Society* (North-Holland Publishing Co., Amsterdam, 1973). M. Ross (Editor)
- ✓ 16. *Agricultural Economics* (A. Folens & Co. Ltd., Dublin, 1973). S. J. Sheehy and R. O'Connor
- [ 17. *Exercises in Mathematical Economics and Econometrics* (Charles Griffin and Co. Ltd., London and High Wycombe, 1975). R. C. Geary and J. E. Spencer
- ✓ 18. *The Irish Economy* (Studies, Economic and Financial Series, No. 10, Brussels: Commission of European Communities, 1975). K. A. Kennedy and R. Bruton
19. *Input-Output Analysis and its Applications* (Charles Griffin and Co. Ltd., London, 1975). R. O'Connor and E. W. Henry
- ✓ 20. *Economic Growth in Ireland: The Experience since 1947* (Dublin: Gill and Macmillan and New York: Barnes and Noble, in association with The Economic and Social Research Institute, 1975). K. A. Kennedy and B. R. Dowling
- [ 21. *Political Culture in Ireland: The Views of Two Generations* (Dublin: Institute of Public Administration, September 1976). With an Introduction by J. H. Whyte. J. Raven, C. T. Whelan, P. A. Pfretzschner and D. M. Borock
- ✓ 22. *Energy Conservation in Ireland 1975-1985: Report to the Minister for Transport and Power* (Dublin: Stationery Office, November, 1976). E. W. Henry
- [ 23. *Statistical Aspects of Subjective Measures of Quality of Life* (London: SSRC Survey Unit, Occasional Papers in Survey Research No. 4, 1976). B. J. Whelan and C. A. Ó Muirheartaigh
- ✓ 24. *Study on the Possible Part Played by Certain Primary Non-Employment Incomes in the Inflationary Process in Ireland* (Series: Medium term economic policy, Vol. 9 Brussels: Commission of the European Communities, 1977). R. C. Geary and F. P. Murphy

- ✓ 25. *Irish Economic Policy: A Review of Major Issues* (Dublin: The Economic and Social Research Institute, 1978). B. R. Dowling and J. Durkan (Editors)
- ✓ 26. *The Unemployment Problem in Ireland: Background Analysis and Policy Options* (The European League for Economic Co-operation and The Irish Council of the European Movement, 1978). B. M. Walsh
- [ 27. *The Spread of Shiftwork in the European Community: Ireland* (European Foundation for the Improvement of Living and Working Conditions, 1980). E. W. Henry, K. A. Kennedy, A. Foley and T. Healy  
ESRI Staff
- ✓ 28. *The Irish Economy and Society in the 1980s*. Papers presented at ESRI Twenty-first Anniversary Conference, 6 October 1981. (Dublin: The Economic and Social Research Institute, 1981).
- ✓ 29. *The Economic and Social State of the Nation*. A Series of Public Lectures to mark the Twenty-first Anniversary of the ESRI, (May, 1982). J. F. Meenan, M. P. Fogarty, Bishop J. Kavanagh, L. Ryan P. Bacon, J. Durkan, J. O'Leary
- ✓ 30. *The Irish Economy: Policy and Performance 1972-1981* (July, 1982). D. Conniffe and K. A. Kennedy (Editors) Staff ESRI
- ✓ 31. *Employment and Unemployment Policy for Ireland*. (Dublin: The Economic and Social Research Institute. (February, 1984).
- ✓ 32. *Public Social Expenditure — Value for Money?* Papers presented at a Conference, 20 November 1984. Dublin: The Economic and Social Research Institute (January, 1985).
- ✓ 33. *The Economics of Irish Agriculture* (Dublin: The Institute of Public Administration, 1985). S. J. Sheehy, R. O'Connor
- ✓ 34. *Ireland in Transition: Economic and Social Change Since 1960*, Thomas Davis Lecture Series on the occasion of the Twenty-fifth Anniversary of the ESRI, Cork and Dublin: The Mercier Press, 1986. K. A. Kennedy (Editor)

Year of  
Publication

## II GENERAL RESEARCH SERIES

- |      |   |                               |
|------|---|-------------------------------|
| 1961 | 1. <i>The Ownership of Personal Property in Ireland.</i>                                  | Edward Nevin                  |
|      | 2. <i>Short-Term Economic Forecasting and its Application in Ireland.</i>                 | Alfred Kuehn                  |
| 1962 | 3. <i>The Irish Tariff and the E.E.C.: A Factual Survey.</i>                              | Edward Nevin                  |
|      | 4. <i>Demand Relationships for Ireland.</i>   | C. E. V. Leser                |
|      | 5. <i>Local Government Finance in Ireland: A Preliminary Survey.</i>                      | David Walker                  |
|      | 6. <i>Prospects of the Irish Economy in 1962.</i>   | Alfred Kuehn                  |
|      | 7. <i>The Irish Woollen and Worsted Industry, 1946-59: A Study in Statistical Method.</i> | R. C. Geary                   |
|      | 8. <i>The Allocation of Public Funds for Social Development.</i>                          | David Walker                  |
|      | 9. <i>The Irish Price Level: A Comparative Study.</i>                                     | Edward Nevin                  |
|      | 10. <i>Inland Transport in Ireland: A Factual Survey.</i>                                 | D. J. Reynolds                |
|      | 11. <i>Public Debt and Economic Development.</i>  | Edward Nevin                  |
| 1963 | 12. <i>Wages in Ireland, 1946-62.</i>   | Edward Nevin                  |
|      | 13. <i>Road Transport: The Problems and Prospects in Ireland.</i>                         | D. J. Reynolds                |
|      | 14. <i>Imports and Economic Growth in Ireland, 1947-61.</i>                               | C. E. V. Leser                |
|      | 15. <i>The Irish Economy in 1962 and 1963.</i>  | C. E. V. Leser                |
|      | 16. <i>Irish County Incomes in 1960.</i>  | E. A. Attwood and R. C. Geary |
|      | 17. <i>The Capital Stock of Irish Industry.</i>   | Edward Nevin                  |
| 1964 | 18. <i>Local Government Finance and County Incomes.</i>                                   | David Walker                  |
|      | 19. <i>Industrial Relations in Ireland: The Background.</i>                               | David O'Mahony                |
|      | 20. <i>Social Security in Ireland and Western Europe.</i>                                 | P. R. Kaim-Caudle             |
|      | 21. <i>The Irish Economy in 1963 and 1964.</i>  | C. E. V. Leser                |
|      | 22. <i>The Cost Structure of Irish Industry, 1950-60.</i>                                 | Edward Nevin                  |
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- 1965 24. *Economic Aspects of Industrial Relations.*  
 25. *Psychological Barriers to Economic Achievement.*  
 26. *Seasonality in Irish Economic Statistics.*  
 27. *The Irish Economy in 1964 and 1965.*  
 28. *Housing in Ireland: Some Economic Aspects.*
- 1966 29. *A Statistical Study of Wages, Prices and Employment in the Irish Manufacturing Sector.*  
 30. *Fuel and Power in Ireland: Part I. Energy Consumption in 1970.*  
 31. *Determinants of Wage Inflation in Ireland.*  
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 33. *The Irish Economy in 1966.*  
 34. *Fuel and Power in Ireland: Part II. Electricity and Turf.*  
 35. *Fuel and Power in Ireland: Part III. International and Temporal Aspects of Energy Consumption.*
- 1967 36. *Institutional Aspects of Commercial and Central Banking in Ireland.*  
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- 1968 40. *Some Aspects of Price Inflation in Ireland.*  
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 51. *Costs and Prices in Transportable Goods Industries.*
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*with Appendix*  
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 57. *Views on Income Differentials and the Economic Situation.*
- 1971 58. *Computers in Ireland.*  
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 60. *Capital Statistics for Irish Manufacturing Industry.*  
 61. *Rural Household Budget — Feasibility Study.*
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 P. Pentony  
 C. E. V. Leser  
 C. E. V. Leser  
 P. R. Kaim-Caudle  
 C. St. J. O'Herlihy  
 J. L. Booth  
 Keith Cowling  
 T. J. Baker  
 The Staff of The  
 Economic Research  
 Institute  
 J. L. Booth  
 J. L. Booth  
 John Hein  
 J. L. Booth  
 C. E. V. Leser  
 The Staff of The  
 Economic and Social  
 Research Institute  
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 J. L. Pratschke  
 David Simpson  
 Brendan M. Walsh  
 Richard Lynn  
 C. W. Jefferson  
 R. O'Connor with  
 M. Breslin  
 R. O'Connor  
 John Blackwell  
 Bertram Hutchinson  
 Mical Ross  
 John L. Pratschke  
 W. Black, J. V. Simpson,  
 D. C. Slattery  
 R. C. Geary and  
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 Dermot McAleese  
 R. C. Geary and  
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 R. C. Geary and  
 J. G. Hughes  
 H. Behrend, A. Knowles  
 and J. Davies  
 H. Behrend, A. Knowles  
 and J. Davies  
 F. G. Foster  
 Richard Lynn  
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 Sile Sheehy and  
 R. O'Connor

62. *Effective Tariffs and the Structure of Industrial Protection in Ireland.* Dermot McAleese
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- 1972 64. *Further Data on County Incomes in the Sixties.* Míceal Ross
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- 1973 67. *Social Status in Dublin: Marriage, Mobility and First Employment.* B. Hutchinson
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69. *Women and Employment in Ireland: Results of a National Survey.* B. M. Walsh assisted by Annette O'Toole
70. *Irish Manufactured Imports from the UK in the Sixties: The Effects of AIFTA.* Dermot McAleese and John Martin
71. *Alphabetical Voting: A Study of the 1973 General Election in the Republic of Ireland.* B. M. Walsh and Christopher Robson
72. *A Study of the Irish Cattle and Beef Industries.* T. J. Baker, R. O'Connor and R. Dunne
- 1974 73. *Regional Employment Patterns in Northern Ireland.* W. Black and C. W. Jefferson
74. *Irish Full Employment Structures, 1968 and 1975.* E. W. Henry
75. *An Economic Evaluation of Irish Salmon Fishing, II: The Irish Anglers.* R. O'Connor, B. J. Whelan and A. McCashin
76. *Factors Relating to Reconviction among Young Dublin Probationers.* Ian Hart
77. *The Structure of Unemployment in Ireland, 1954-72.* B. M. Walsh
78. *An Economic Evaluation of Irish Salmon Fishing, III: The Commercial Fishermen.* B. J. Whelan, R. O'Connor and A. McCashin
- 1975 79. *Wage Inflation and Wage Leadership: A Study of the Role of Key Wage Bargains in the Irish System of Collective Bargaining.* W. E. J. McCarthy, J. F. O'Brien and V. G. Dowd
80. *An Econometric Study of the Irish Postal Services.* Peter Neary
81. *Employment Relationships in Irish Counties.* T. J. Baker and M. Ross
82. *Irish Input-Output Income Multipliers, 1964 and 1968.* J. R. Copeland and E. W. Henry
83. *A Study of the Structure and Determinants of the Behavioural Component of Social Attitudes in Ireland.* E. E. Davis
84. *Economic Aspects of Local Authority Expenditure and Finance.* J. R. Copeland and B. M. Walsh
- 1976 85. *Population Growth and Other Statistics of Middle-Sized Irish Towns.* D. Curtin, R. C. Geary, T. A. Grimes and B. Menton
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88. *An Irish Personality Differential: A Technique for Measuring Affective and Cognitive Dimensions of Attitudes towards Persons.* E. E. Davis and M. O'Neill
89. *Redundancy and Re-employment in Ireland.* B. J. Whelan and B. M. Walsh
90. *A National Model of Fuel Allocations — A Prototype.* E. W. Henry and S. Scott
91. *A Linear Programming Model for Irish Agriculture.* R. O'Connor, M. Ross and M. Behan
- 1978 92. *Irish Educational Expenditures — Past, Present and Future.* A. Dale Tussing

93. *The Working and Living Conditions of Civil Service Typists.* Nóirín O'Broin and Gillian Farren
94. *Irish Public Debt.* Richard Bruton
- 1979 95. *Output and Employment in the Irish Food Industry in 1990.* A. D. O'Rourke and T. P. McStay
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97. *Attitudes in the Republic of Ireland relevant to the Northern Ireland Problem: Vol. 1: Descriptive Analysis and Some Comparisons with Attitudes in Northern Ireland and Great Britain.* E. E. Davis and R. Sinnott
- 1980 98. *Internal Migration Flows in Ireland and their Determinants.* J. C. Hughes and B. M. Walsh
99. *Irish Input-Output Structures, 1976.* E. W. Henry
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113. *Schooling and Sex Roles: Sex Differences in Subject Provision and Student Choice in Irish Post-Primary Schools.* E. W. Henry
114. *Energy Crops, Forestry and Regional Development in Ireland.* D. F. Hannan, R. Breen and D. Watson
- 1984 115. *Aggregate Supply, Aggregate Demand and Income Distribution in Ireland: A Macrosectoral Analysis.* N. Hardiman, K. O'Higgins
116. *Social Mobility in the Republic of Ireland: A Comparative Perspective.* F. J. Convery and K. Dripchak
117. *Attitudes Towards Poverty and Related Social Issues in Ireland.* J. Bradley and C. Fanning
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119. *Education and the Labour Market: Work and Unemployment among Recent Cohorts of Irish School Leavers.* E. E. Davis, Joel W. Grube and Mark Morgan
- 1985 120. *Payroll Tax Incidence, The Direct Tax Burden and the Rate of Return on State Pensions Contributions in Ireland.* I. J. Irvine and R. Breen
- G. Hughes

121. *Crime Victimisation in the Republic of Ireland.* R. D. Breen and D. B. Rottman
122. *Medium-term Analysis of Fiscal Policy in Ireland: A Macroeconometric Study of the Period 1967-1980.* J. Bradley, C. Fanning, C. Prendergast and M. Wynne
123. *The Irish Wealth Tax. A Case Study in Economics and Politics.* C. Sandford and O. Morrissey
124. *Aspects of Freight Transport in Ireland.* J. Short
125. *Small-Scale Manufacturing Industry in Ireland.* K. A. Kennedy and T. Healy (assisted by J. Bergin, T. Callan and P. McNutt)
126. *Irish Medical Care Resources: An Economic Analysis.* A. Dale Tussing
- 1986 127. *Employment in the Public Domain in Recent Decades.* M. Ross
128. *Multisector Modelling of the Irish Economy, with Special Reference to Employment Projections.* E. W. Henry
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131. *The Population and Living Circumstances of Irish Travellers: Results from the 1981 Census of Traveller Families.* D. B. Rottman, A. D. Tussing and M. M. Wiley
132. *Smoking, Drinking and Other Drug Use Among Dublin Post-Primary Pupils.* J. W. Grube and M. Morgan
133. *A Study of the Bovine Tuberculosis Eradication Scheme.* R. O'Connor

### III(a) QUARTERLY ECONOMIC COMMENTARY

April 1986  
 August 1986  
 November 1986  
 December 1986

T. J. Baker, S. Scott, L. Hayes  
 T. J. Baker, S. Scott, T. Quinn  
 T. J. Baker, S. Scott, T. Quinn  
 T. J. Baker, S. Scott, T. Quinn

#### *Special articles appearing in the QEC*

April 1986 Aidan Punch  
 "Real Gross National Disposable Income Adjusted for  
 Terms of Trade 1970-1984".

### III(b) MEDIUM-TERM OUTLOOK

*Medium-term Outlook 1986-1990, (No. 1, February 1986).* P. Bacon

#### *Special articles appearing in the MTO*

"Assessment of Proposals for Changes in the Common  
 Agricultural Policy". R. O'Connor  
 "Foreign Owned Industry in Ireland: Performance and  
 Prospects". Eoin O'Malley

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*Year of  
 publication*

### IV BROADSHEET SERIES

- |       |   |   |
|-------|---|---|
| 1969  | 1. <i>Dental Services in Ireland.</i>   | P. R. Kaim-Caudle   |
| 1970  | 2. <i>We Can Stop Rising Prices.</i>  | M. P. Fogarty   |
|       | 3. <i>Pharmaceutical Services in Ireland.</i>   | P. R. Kaim-Caudle<br>assisted by A. O'Toole<br>and K. O'Donoghue    |
|       | 4. <i>Ophthalmic Services in Ireland.</i>   | P. R. Kaim-Caudle<br>assisted by<br>K. O'Donoghue and<br>A. O'Toole |
| 1971  | 5. <i>Irish Pensions Schemes, 1969.</i>   | P. R. Kaim-Caudle and<br>J. G. Byrne assisted by<br>A. O'Toole      |
| 1972  | 6. <i>The Social Science Percentage Nuisance.</i>   | R. C. Geary   |
|       | 7. <i>Poverty in Ireland: Research Priorities.</i>  | B. M. Walsh   |
| 1973. | 8. <i>Irish Entrepreneurs Speak of Themselves.</i>  | M. P. Fogarty   |
| 1974  | 9. <i>Marital Desertion in Dublin: An Explanatory Study.</i>  | K. O'Higgins  |
|       | 10. <i>Equalization of Opportunity in Ireland: Statistical Aspects.</i>                                       | R. C. Geary and<br>F. S. Ó Muircheartaigh                           |
| 1975  | 11. <i>Public Social Expenditure in Ireland.</i>  | F. Kennedy  |
|       | 12. <i>Problems in Economic Planning and Policy Formation in<br/>                     Ireland, 1958-1974.</i> | D. Norton   |
|       | 13. <i>Crisis in the Cattle Industry.</i>   | R. O'Connor and<br>P. Keogh   |



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|------|---|--|
| 1977 | 14. <i>A Study of Schemes for the Relief of Unemployment in Ireland, with Appendix</i>  | R. C. Geary and<br>M. Dempsey<br>E. Costa  |
| 1978 | 15. <i>Dublin Simon Community, 1971-1976: An Exploration.</i><br>16. <i>Aspects of the Swedish Economy and their Relevance to Ireland.</i>  | I. Hart<br>R. O'Connor,<br>E. O'Malley and<br>A. Foley                             |
| 1979 | 17. <i>The Irish Housing System: A Critical Overview.</i><br>18. <i>The Irish Itinerants: Some Demographic, Economic and Educational Aspects.</i>   | T. J. Baker and<br>L. M. O'Brien<br>M. Dempsey and<br>R. C. Geary                  |
| 1980 | 19. <i>A Study of Industrial Workers' Co-operatives.</i><br>20. <i>Drinking in Ireland: A Review of Trends in Alcohol Consumption, Alcohol Related Problems and Policies Towards Alcohol.</i> | R. O'Connor and<br>P. Kelly<br>B. M. Walsh   |
| 1983 | 21. <i>A Review of the Common Agricultural Policy and the Implications of Modified Systems for Ireland.</i><br>22. <i>Policy Aspects of Land-Use Planning in Ireland.</i>                     | R. O'Connor,<br>C. Guimard and<br>J. Devereux<br>F. J. Convery and<br>A. A. Schmid |
| 1984 | 23. <i>Issues in Adoption in Ireland.</i>   | H. J. Abramson   |

Year of  
publication

## V POLICY RESEARCH SERIES

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|------|---|---|
| 1979 | 1. <i>Regional Policy and the Full-Employment Target.</i>   | M. Ross and<br>B. M. Walsh  |
| 1980 | 2. <i>Energy Demand in Ireland, Projections and Policy Issues.</i><br>3. <i>Some Issues in the Methodology of Attitude Research.</i>                              | S. Scott<br>E. E. Davis, R. Sinnott,<br>T. J. Baker,<br>D. F. Hannan,<br>D. B. Rottman and<br>B. M. Walsh |
| 1982 | 4. <i>Land Drainage Policy in Ireland.</i>  | R. Bruton and<br>F. J. Convery  |
| 1983 | 5. <i>Recent Trends in Youth Unemployment.</i>  | J. J. Sexton  |
| 1986 | 6. <i>The Economic Consequences of European Union: A Symposium on Some Policy Aspects.</i><br>7. <i>The National Debt and Economic Policy in the Medium Term.</i> | D. Scott, J. Bradley,<br>J. FitzGerald, M. Ross<br>J. D. FitzGerald                                       |

## VI COMMISSIONED PROJECTS COMPLETED IN 1986

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| 1. | <i>The Demand for Cold Storage Space in Ireland: The Short &amp; Medium Term Prospects.</i> Report to Autozero Ltd.  | P. Bacon and<br>T. Quinn |
| 2. | <i>Public Expenditure on Irish Sea Fisheries: A Comparison with Agriculture.</i> Report submitted to Bord Iascaigh Mhara.  | P. Bacon                 |
| 3. | <i>Data Collection and Manpower Programmes.</i> Report submitted to Department of Labour.  | R. Breen                 |
| 4. | <i>School Leavers 1980-1985.</i> Summary Report submitted to the Department of Labour.   | R. Breen                 |
| 5. | <i>Allocating Designation Status on the Basis of the NESCC Criteria.</i> Report submitted to Minister for Industry, Trade, Commerce and Tourism.   | D. Conniffe              |
| 6. | <i>Schooling and the Labour Market: Report on Socio-economic and Institutional Implications of the Pilot Intervention Project Dublin, Shannon and Galway 1983-86.</i> Report submitted to Department of Education. | D. Hannan                |

7. *Developments of I-O Techniques of Relevance to Growth Models and Marginal Models.* Report submitted to the IDA. E. W. Henry
8. *Employment/Investment Multipliers for Manufacturing Sub-Sectors of SKC/IDA Added Value Study.* Report submitted to Stokes Kennedy Crowley. E. W. Henry
9. *The Organisation of Marine Research in Ireland.* Report submitted to National Board for Science & Technology. R. O'Connor
10. *Aquaculture.* Report submitted to Joint Oireachtas Committee on Secondary Legislation of the EEC. R. O'Connor
11. *Research and Technological Developments in the Less Favoured Regions of the EEC.* Report submitted to EEC/NBST. R. O'Connor
12. *Redistribution through State Social Expenditure and Taxation in Ireland.* Report submitted to National Economic and Social Council. D. B. Rottman and M. Reidy
13. *Evaluation Measures to Assist Long-Term Unemployed in Selected OECD Countries.* Report submitted to OECD. J. J. Sexton
14. *Attitudes towards Industrial Support.* Report submitted to the Department of Industry, Trade, Commerce and Tourism. B. J. Whelan
15. *Evaluation Report on Shared-Learning Project.* Report submitted to IPC/NILRA. C. T. Whelan
16. *Employers' Perceptions of the Effect of Labour Legislation.* Report submitted to the Department of Labour. J. A. Williams and B. J. Whelan

The Institute's Survey Unit developed samples, carried out fieldwork and analysed the results of the following surveys:

1. *Monthly Consumer Surveys: Commission of the European Economic Community (in association with An Foras Talántais).*
2. *Monthly Survey of Irish Business: Commission of the European Economic Community (in association with the Confederation of Irish Industry).*
3. *National Manpower Survey of School Leavers: Department of Labour.*
4. *Bi-annual Survey of Investment by Irish Business: Commission of the European Economic Community.*
5. *Survey of Purchasing Power Parity: Commission of the European Economic Community.*
6. *Survey of Anglers: Central Fisheries Board.*
7. *Survey of Attitudes towards Industrial Support: Department of Industry, Trade, Commerce and Tourism.*
8. *Survey of Parents' Preferences in Relation to Sex Education: The Health Education Bureau.*
9. *Survey of the Role of Women in Ireland: Dr. M. Fine-Davis, Trinity College, Dublin.*
10. *Survey of Lifestyles, Poverty and the Usage of State Services: Commission of the European Communities/Department of Social Welfare.*
11. *Survey of Cross-Border Shopping Patterns: Commission of the European Communities.*

The Survey Unit also carried out sample selection and/or data processing for the Medico-Social Research Board, the Kilkenny Health Project, Córas Tráchtála, the Federated Union of Employers, the Construction Industry Federation, TAM Attwood Market Research Ltd., the Youth Employment Agency, AnCO, Inbucon (UK) Ltd., Bord Telecom and Comtec (Sligo) Ltd.

Year of  
publication

## VII MISCELLANEOUS PAPERS

- |      |  |                                     |
|------|--|-------------------------------------|
| 1969 | <i>Abstract of Published Papers, 1961-1969.</i>                      | P. R. Kaim-Caudle and<br>N. Johnson |
| 1973 | <i>Abstract of Published Papers, 1969-1973.</i>                      | M. Dempsey                          |
| 1976 | <i>Abstract of Published Papers, 1973-1976.</i>                      | M. Dempsey                          |
|      | <i>The ESRI Research Plan, 1976-80 and Background Analysis.</i>      | K. A. Kennedy                       |
| 1979 | <i>Register of Current Social Science Research in Ireland, 1978.</i> | Maria C. Whelan                     |
| 1980 | <i>Abstract of Published Papers, 1977-1979.</i>                      | M. Dempsey                          |
| 1981 | <i>Register of Current Social Science Research in Ireland, 1980.</i> | F. O'Sullivan                       |
|      | <i>The ESRI Research Plan, 1981-85 and Background Analysis.</i>      | K. A. Kennedy                       |

1982	<i>Register of Current Social Science Research in Ireland, 1981.</i>	F. O'Sullivan
1983	<i>Register of Current Social Science Research in Ireland, 1982.</i>	F. O'Sullivan
1984	<i>Register of Current Social Science Research in Ireland from 1983.</i>	F. O'Sullivan
1985	<i>Register of Current Social Science Research in Ireland from 1984.</i>	F. O'Sullivan
1986	<i>Register of Current Social Science Research in Ireland from 1985.</i>	F. O'Sullivan
	<i>The ESRI Research Plan, 1986-1990 and Background Analysis.</i>	K. A. Kennedy

## VIII REPRINT SERIES

1.	Commentary on <i>Europe's Future in Figures</i> (North-Holland Publishing Co., Amsterdam, 1962).	R. C. Geary
2.	Forms of Engel Functions ( <i>Econometrica</i> , Vol. 31, No. 4, October, 1963).	C. E. V. Leser
3.	The Cost Structure of British Manufacturing, 1948-61 ( <i>The Economic Journal</i> , Vol. LXXIII, No. 292, December, 1963).	E. T. Nevin
4.	The Life of Capital Assets: An Empirical Approach ( <i>Oxford Economic Papers</i> ).	E. T. Nevin
5.	Estimation of Quasi-Linear Trend and Seasonal Variation ( <i>Journal of the American Statistical Association</i> , Vol. 58, No. 304, December, 1963).	C. E. V. Leser
6.	The Pattern of Personal Expenditure in Ireland ( <i>Journal of the Statistical and Social Inquiry Society of Ireland</i> , Vol. XXI, Part II, 1963/64).	C. E. V. Leser
7.	Some Remarks about Relations between Stochastic Variables: A Discussion Document ( <i>Review of the International Statistical Institute</i> , Vol. 31, No. 2, 1963).	R. C. Geary
8.	Towards an Input-Output Decision Model for Ireland ( <i>Journal of the Statistical and Social Inquiry Society of Ireland</i> , Vol. XXI, Part II, 1963/64).	R. C. Geary
9.	Do-It-Yourself Economics of the Firm: First Draft of a Statistical Scheme ( <i>OECD Productivity Measurement Review</i> , February, 1965).	R. C. Geary
10.	Recent Demographic Developments in Ireland ( <i>Journal of the Statistical and Social Inquiry Society of Ireland</i> , Vol. XXI, Part III, 1964/65).	C. E. V. Leser
11.	The Average Critical Value Method for Adjudging Relative Efficiency of Statistical Tests in Time Series Regression Analysis ( <i>Biometrika</i> , Vol. 53, Nos. 1 and 2, June, 1966).	R. C. Geary
12.	A Note on Residual Heterovariance and Estimation Efficiency in Regression ( <i>The American Statistician</i> , Vol. 20, No. 4, October, 1966).	R. C. Geary
13.	Direct Estimation of Seasonal Variation ( <i>Review of the International Statistical Institute</i> , Vol. 23, No. 3, 1966).	C. E. V. Leser
14.	Ex-Post Determination of Significance in Multivariate Regression when the Independent Variables are Orthogonal ( <i>Journal of the Royal Statistical Society, Series B</i> , Vol. 29, No. 1, 1967).	R. C. Geary
15.	Some Aspects of Economic Development in Ireland, 1958-65 ( <i>Economic Record</i> , Vol. 43, No. 103, September, 1967).	G. G. Firth
16.	The Role of Macro-economic Models in Short-Term Forecasting ( <i>Econometrica</i> , Vol. 34, No. 4, October, 1966).	C. E. V. Leser
17.	A Dublin Schools Smoking Survey ( <i>Irish Journal of Medical Science</i> , 7th Series, Vol. 1, No. 3, March, 1968).	Aengus O'Rourke, Noelie O'Sullivan and K. Wilson
18.	Significance Tests in Multiple Regression ( <i>The American Statistician</i> , Vol. 22, No. 1, February, 1968).	R. C. Geary and C. E. V. Leser
19.	Two-Stage Planning in the Irish Context ( <i>London Papers in Regional Science</i> , J. Scott, ed.).	M. Ross

20. Hospital Beds in Ireland (*Journal of the Irish Medical Association*, Vol. 62, No. 383, May, 1969). P. R. Kaim-Caudle
21. Evaluations of Occupations by Irish Rural Adolescents on the Basis of Prestige and Difficulty of Achievement (*Rural Sociology*, Vol. 34, No. 3, September, 1969). Damian F. Haman and J. Allan Beegle
22. Comparative Efficiency of Maximum Likelihood and *ex ante* Reduced Form for Forecasting. Study of a Simple Model (*European Economic Review*, Fall, 1969). R. C. Geary
23. Relative Efficiency of Count of Sign Changes for Assessing Residual Auto-Regression in Least Squares Regression (*Biometrika*, Vol. 57, No. 1, March, 1970). R. C. Geary
24. Marriage Rates and Population Pressure: Ireland 1871 and 1911 (*The Economic History Review*, 2nd Series, Vol. XXIII, No. 1, April, 1970). B. M. Walsh
25. A Study of Irish County Marriage Rates, 1961-66 (*Population Studies*, Vol. XXIV, No. 2, July, 1970). B. M. Walsh
26. The Determinants of Personal Savings in Ireland: An Econometric Inquiry (*The Economic and Social Review*, Vol. 2, No. 1, July, 1970). K. A. Kennedy and B. R. Dowling
27. Fringe Benefits in Irish Manufacturing Industries (*Management*, Vol. XVIII, No. 4, April, 1971). Nuala Johnson
28. Managerial Decisions and Production Function Analysis: A Case Study (*Irish Journal of Agricultural Economics and Rural Sociology*, Vol. 3, No. 2, 1971). M. Ross
29. Trends in Age At Marriage in Post-War Ireland (*Demography*, Vol. 9, No. 2, May, 1972). B. M. Walsh
30. A Note on Biased and Inconsistent Estimation *European Economic Review*, Vol. 3, December, 1972). R. C. Geary
31. Validity of Indices of Alcoholism (*British Journal of Preventive and Social Medicine* Vol. 27, No. 1, February, 1973). B. M. Walsh and D. Walsh
32. Marital Status and Birth Order in a Sample of Dublin Males (*Journal of Biosocial Science*, Vol. 5, No. 2, April, 1973). B. M. Walsh
33. Reflections on National Accounting (*Review of Income and Wealth*, Series 19, No. 3, September, 1973). R. C. Geary
34. The Role of Social Science in Relation to Public Policy (*Proceedings of the Royal Irish Academy*, Vol. 73, Section C, 1973). K. A. Kennedy
35. The Demand for Beer and Spirits in Ireland (*Proceedings of the Royal Irish Academy*, Vol. 73, Section C, 1973). K. A. Kennedy, B. M. Walsh and L. P. Ebrill
36. Capital Inflow and Direct Foreign Investment in Ireland 1952 to 1970 (*Journal of the Statistical and Social Inquiry Society of Ireland*, Vol. XXII, Part IV, 1971/72). D. McAleese
37. The Irish Economy: The Challengers and Options (*Management*, Vol. 21, No. 5, May, 1974). K. A. Kennedy
38. An Analysis of Recent Policies for Beef and Milk (*Journal of the Statistical and Social Inquiry Society of Ireland*, Vol. XXIII, Part II, 1969/70). R. O'Connor
39. Expectations, Information and Human Migration: Specifying an Econometric Model of Irish Migration to Britain (*Journal of Regional Science*, Vol. 14, No. 1, 1974). B. M. Walsh
40. Population Policy in Developed Countries: Chapter 2: Ireland (*Population Policy in Developed Countries*, edited by Bernard Berelson, McGraw-Hill Inc., 1974). B. M. Walsh
41. Population and Development: Ireland since Independence (*Annual Report 1975 of the Central Bank of Ireland*). K. A. Kennedy
42. Impressions of a Visit to Denmark (*Central Bank of Ireland Quarterly Bulletin*, Autumn, 1975). K. A. Kennedy

43. The Consumer Price Index and Different Household Expenditure Patterns (*Quarterly Economic Commentary*, October, 1975). K. A. Kennedy and R. Bruton
44. Orientations to work: Some theoretical and methodological problems (*British Journal of Industrial Relations*, Vol. XIV, No. 2). C. T. Whelan
45. Migration Flows Between Ireland, the United Kingdom, and the Rest of the World, 1966-71 (*European Demographic Information Bulletin*, Vol. 7, No. 4, 1976). J. C. Hughes and B. M. Walsh
46. Economics and the Environment (*Proceedings of Royal Irish Academy*, Vol. 77, Section C, No. 4, 1977). R. O'Connor
47. Impressions of Israel (*Administration*, Vo. 24, No. 4, Winter, 1976). K. A. Kennedy
48. Increasing Employment in Ireland (*Journal of the Statistical and Social Inquiry Society of Ireland*, Vol. XXIII, Part III, 1975/76). K. A. Kennedy
49. Money and Inflation in Ireland, 1960-1975 with some general observations on relationships between time series (*Central Bank of Ireland Quarterly Bulletin*, Autumn, 1977). R. C. Geary
50. The Continuing Social Survey: A Nationwide Study of Subjective Social Indicators and Related Public Attitudes (*Administration*, Vol. 25, No. 4, Winter, 1977). M. Fine-Davis and E. E. Davis
51. Public Works in USA: A Model for Ireland (*Administration*, Vol. 26, No. 1, Spring, 1978). R. C. Geary
52. National and Regional Demographic Trends (*Administration*, Vol. 26, No. 2, Summer, 1978). B. M. Walsh
53. The Preparation of Statistics of Sickness or Disability in Ireland (*Administration*, Vol. 27, No. 2, Summer, 1979). R. C. Geary and M. Dempsey
54. Prais on Strikes (*The Journal of the Royal Statistical Society*, Vol. 143, Part 1, 1980). R. C. Geary
55. Education and Agriculture: A Statistical Approach (*Administration*, Vol. 28, No. 1, 1980). R. C. Geary and M. Dempsey
56. Employment and Unemployment Prospects in Ireland (*The Irish Banking Review*, September, 1980). K. A. Kennedy
57. Education and Socio-Economic Class: A Statistical Analysis of Irish Census Data (*The Irish Journal of Education*, Vol. 13, No. 1, 1979). R. C. Geary and E. W. Henry
58. Impact of EEC Membership on Economic Development in the West of Ireland (*The Annual Report, Central Development Committee*, Department of Finance, 1980). M. Ross
59. The Regional Dimension (*Full Employment and Regional Development - Issues and Policies*, Diarmuid O Cearbhaill, (Ed.), 1981). M. Ross
60. Predictors of Satisfaction with Housing and Neighbourhood: A Nationwide Study in the Republic of Ireland (*Social Indicators Research*, 9, 1981). E. E. Davis and M. Fine-Davis
61. Seafood Production, Markets and Policies, (Institute for the Co-operative Study of International Seafood Markets, Department of Agricultural and Resource Economics, Oregon State University, USA - Working Paper, No. 1, 1982). R. O'Connor and J. Devereux
62. Regional Industrial Policies in the Republic of Ireland: A Review of Economic Studies (*Studies in Social Policy*, No. 85). M. Ross
63. Testing the Assumptions of Seemingly Unrelated Regressions (*The Review of Economics and Statistics*, Vol. LXIV, No. 1, February, 1982). D. Conniffe
64. A Note on Seemingly Unrelated Regressions (*Econometrica*, Vol. 50, No. 1, January, 1982). D. Conniffe
65. Demographic Determinants of Perceived Well-Being in Eight European Countries (*Social Indicators Research*, 10, 1982, pp. 341-358). E. E. Davis, M. Fine-Davis, G. Meehan

66. Ireland: Industrial Co-operatives, *The Performance of Labour-Managed Firms* (Ed. F. H. Stephen, London: The Macmillan Press, 1982). C. M. Fanning
67. Worker Co-operatives, Why So Few? A Critique of O'Mahony's Entrepreneurial Hypothesis (*Journal of Irish Business and Administrative Research*, 4, (2), pp. 27-44, October, 1982). C. M. Fanning
68. The Changing Social Structure of Ireland (*Administration*, Vol. 30, Nos. 2 & 3, 1982). D. B. Rottman and Philip J. O'Connell
69. Small-Sample Properties of Estimators of Regression Coefficients Given a Common Pattern of Missing Data (*Review of Economic Studies*, 1983, L.). Denis Conniffe
70. Covariance Analysis and Seemingly Unrelated Regressions (*The American Statistician*, August, 1982, Vol. 36, No. 3, Part 1). D. Conniffe
71. Enterprise and Entrepreneurs. (*Left Perspectives*, 2(3): 5-8, 10-12, Winter, 1982-3). C. Fanning
72. Predictors of Satisfaction with Environmental Quality in Eight European Countries. (*Social Indicators Research*, 11, 1872, 341-362). M. Fine-Davis and E. E. Davis
73. The Fiscal Framework. (*Ireland in the Year 2000: Towards a National Strategy — Issues and Perspectives*. Proceedings of a Colloquy, Kilkea Castle, An Foras Forbartha, Dublin, 1983). K. A. Kennedy
74. Economic Theory of the Worker Co-operative: An Exposition, (*Economic and Industrial Democracy* SAGE, London, Beverly Hills and New Delhi), Vol. 4, 1983, 225-241). C. Fanning and D. O'Mahony (UCC)
75. The EEC Common Fisheries Policy: Irish Perspective, (*Alaska Sea Grant Report No. 83-2*, January 1983. Published by University of Alaska). R. O'Connor
76. Hypotheses Concerning the Non-Viability of Labour Directed Firms in Capitalist Economies. (*Economic Analysis and Workers' Management*, 2, XVII, 1983, pp. 123-153). C. Fanning (ESRI & UCC) and T. McCarthy (Queen's Univ., Ontario)
77. Path Analysis: An Example. (*Journal of Agricultural Economics*, Vol. XXXIV, No. 3, September, 1983). R. Breen
78. The ESRI Employment Strategy, (*Ireland in the Year 2000*, Proceedings of a Colloquy, Kilkea Castle, An Foras Forbartha, Dublin, 1984). K. A. Kennedy
79. Social Psychological Research and Inter-Group Relations: Myth, Fact and New Approaches, (Proceedings of a Conference on *Promoting Amongst the Young a Greater Respect for Religious and Cultural Diversity*, Dublin, November, 1984, Appendix B, Anglo-Irish Encounter: Dublin and London, January, 1985). E. E. Davis
80. Estimating Regression Equations with Common Exploratory Variables but Unequal Numbers of Observations, (*Journal of Econometrics*, 27, 1985, pp. 179-196). D. Conniffe
81. The Criminal Justice System: An Overview, (Part 2, Section 2 in *Report of the Committee of Inquiry into the Penal System*, Dublin: Stationery Office). D. Rottman and P. Tormey
82. Agricultural Output in the Irish Free State Area Before and After Independence, (*Irish Economic and Social History*, Vol. XII, 1985, pp. 89-97). R. O'Connor and C. Guiomard
83. Voluntary Organisations in Changing Times — Planning and Research, (*Voluntary Organisations in Changing Times*, Proceedings of Annual Conference 1985 of Union of Voluntary Organisations for the Handicapped). M. Ross
84. Workers' Co-operatives — Their Employment Potential, (*Annals of Public and Co-operative Economy*, Vol. 56, No. 4, October/December, 1985). R. O'Connor

## IX GEARY LECTURE SERIES

- |  |                           |
|--|---------------------------|
| 1. <i>A Simple Approach to Macro-economic Dynamics</i> , (1967).                           | R. G. D. Allen            |
| 2. <i>Computers, Statistics and Planning — Systems or Chaos?</i> , (1968).                 | F. G. Foster              |
| 3. <i>The Dual Career Family</i> , (1970).   | Rhona and Robert Rapoport |
| 4. <i>The Psychonomics of Rising Prices</i> , (1971).                                      | H. A. Turner              |
| 5. <i>An Interdisciplinary Approach to the Measurement of Utility or Welfare</i> , (1972). | J. Tinbergen              |
| 6. <i>Econometric Forecasting from Lagged Relationships</i> , (1973).                      | M. C. Kendall             |
| 7. <i>Towards a New Objectivity</i> , (1974).  | Alvin W. Gouldner         |
| 8. <i>Structural Analysis in Sociology</i> , (1975).                                       | Robert K. Merton          |
| 9. <i>British Economic Growth 1951-1973: Success or Failure?</i> , (1976).                 | R. C. O. Matthews         |
| 10. <i>Official Statisticians and Econometricians in the Present Day World</i> , (1977).   | E. Malinvaud              |
| 11. <i>Political and Institutional Economics</i> , (1978).                                 | Gunnar Myrdal             |
| 12. <i>The Dilemmas of a Socialist Economy: The Hungarian Experience</i> , (1979).         | János Kornai              |
| 13. <i>The Story of a Social Experiment and Some Reflections</i> , (1980).                 | Robert M. Solow           |
| 14. <i>Modernisation and Religion</i> , (1981).  | Peter L. Berger           |
| 15. <i>Poor, Relatively Speaking</i> , (1982).   | Amartya Sen               |
| 16. <i>Towards More Rational Decisions on Criminals</i> , (1983).                          | Daniel Glaser             |
| 17. <i>Economic Analysis of the Family</i> , (1985).                                       | Gary S. Becker            |

## X MEMORANDUM SERIES: ADDITIONS DURING THE YEAR ENDED 31 DECEMBER 1986

(A complete list can be had on application to the Institute).

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|--|-------------------------------|
| 173. Using TROLL Version 12 on the CCS Computer with Access to the CSO Databank. | J. Costigan and J. FitzGerald |
| 174. "Likelihood and Estimation".  | D. Conniffe                   |

## XI TECHNICAL SERIES

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|--|--|
| 1. Database Access Using TROLL on the CCS Computer.  | J. Costigan, J. FitzGerald, A. McQuaid, A. Redmond |
| 2. Carrying Out Perturbation Analysis on an Economic Model Using the TROLL Computer Package. | J. FitzGerald                                      |

## XII STAFF PAPERS IN *THE ECONOMIC AND SOCIAL REVIEW* DURING THE YEAR ENDED 31 DECEMBER 1986

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|--|-------------------------------|
| 1. "Verdoorn's Law: A Retrospective View", Vol. 17, No. 2, January.                            | J. Bradley and C. Prendergast |
| 2. "Employers' Social Insurance Contributions and Employment: Reply", Vol. 18, No. 1, October. | G. Hughes                     |

XIII OTHER STAFF PAPERS IN JOURNALS AND BOOKS DURING  
THE YEAR ENDED 31 DECEMBER 1986  
(for earlier years see previous *Annual Reports*).

1. "Unemployment and Fiscal Activism in a Small Open Economy", *Recherches Economiques de Louvain*, Vol. 52, No. 3-4, December. J. Bradley
2. "Does Experience of Work Help School Leavers to get Jobs?", *Sociology*, Vol. 20, No. 2, May. R. Breen
3. "El Estudio de la Adaptacion de los Inmigrantes al Medio Urbana: El Analisis de Redes Sociales", *Anales de Geografia de la Universidad Complutense*, Madrid, Vol. 5, (with Andres Precedo Ledo). S. Grimes
4. "Input-Output Analysis, with Illustrated Uses in Irish 1982 Agriculture and Food Industries", *Agricultural Economic Society of Ireland Proceedings 1983-84*, Agricultural Institute, Dublin, March. E. W. Henry
5. "Youth Unemployment in Europe", *Social Studies*, Vol. 9, Nos. 1/2, Spring/Summer. K. A. Kennedy
6. "Family Planning Services in Ireland with Particular Reference to Minors" in Hyman Rodman and Jan Trost (eds.), *The Adolescent Dilemma*, New York: Praeger. K. O'Higgins
7. "Divorce and Remarriage in Ireland", *Administration*, May/June. K. O'Higgins
8. "An Alternative Approach to Economic Strategy for the Republic of Ireland", *Report of the First Joint North/South Conference on Poverty, Action on Poverty*. E. O'Malley
9. "Free Trade Zones in Ireland and Four Asian Countries", *Trócaire Development Review*. E. O'Malley
10. "Reflections on Ireland's Economic Identity", *Studies*, Winter. E. O'Malley
11. "Des Institutions Types mais une Dynamique Economique Originale: l'Irlande" in Robert Boyer (ed.), *La Flexibilité du Travail en Europe*, Paris: Editions La Decouverte. M. Ross
12. "Respectable Crime: Occupational and Professional Crime in the Republic of Ireland", *Studies*, Vol. 75, Spring. D. Rottman and P. Tormey
13. "Formation, Education Permanente et Chomage de Longue Duree", *Actualite de la Formation Permanente*, No. 85, November/December. J. J. Sexton

XIV PAPERS READ TO LEARNED SOCIETIES AND CONFERENCES  
DURING THE YEAR ENDED 31 DECEMBER 1986  
(for earlier years see previous *Annual Reports*).

1. "The Irish Economy: The Medium-Term Outlook" to Dublin Chamber of Commerce Briefing Symposium for Business on *The Oil Factor: Its Effects on Business Prospects*, Dublin, March 25. P. Bacon
2. "Industrial Output and Factor Input Determination in an Econometric Model of a Small Open Economy" read at International Conference on *Economic Modelling in the OECD Economies*, London Business School, March 24-27. J. Bradley and J. FitzGerald
3. "Unemployment and Fiscal Activism in a Small Open Economy", Conference on *Unemployment in Europe*, Maastricht, The Netherlands, April 17-19. J. Bradley
4. "Economic Planning: Lessons from the Past" read to Dublin Economics Workshop Tenth Annual Policy Conference, Kenmare, October 10-12. J. Bradley



5. "Irish Economic Planning: 1958-1986" read to Student Economics Society, Trinity College, Dublin, November 17. J. Bradley
6. "Organising the Unemployed" read at Federated Workers' Union of Ireland/Galway Association for the Unemployed Seminar on *A Union for the Unemployed*, Galway, February 8. R. Breen
7. "Farm Servitude in Ireland, 1900-1940" read to Irish Labour History Society Conference, Dublin, May 17. R. Breen
8. "Equality in Education" delivered to Annual Congress of the Irish Vocational Education Association, Wexford, May 21. R. Breen
9. "The Costs of Irish Unemployment" read to Dublin Institute of Technology Conference on *Unemployment — The Challenge to Society*, Dublin College of Catering, July 3-4. R. Breen
10. "The Anglo-Irish Agreement: Prospects in Light of Public Attitudes in the Republic, Northern Ireland and Mainland Britain" read to Ninth Annual Scientific Meeting of the International Society of Political Psychology, Amsterdam, June 29-July 3. E. E. Davis
11. "The Economic Implication for Ireland of European Union" read at Conference on *European Union: Where does Ireland Stand?*, University College, Galway, February 4. J. FitzGerald
12. "The Drogheda Merchant Community 1780-1820" delivered to the Old Drogheda Society, Drogheda, March 5. J. FitzGerald
13. "The National Debt — Future Prospects and Policies" read to Dublin Economics Workshop Tenth Annual Policy Conference, Kenmare, October 10-12. J. FitzGerald
14. "The National Debt" delivered at Seminar for Bachelor of Public Administration students, Institute of Public Administration, December 13. J. FitzGerald
15. "The Connacht-Donegal Region" read at Enterprise Connacht/Donegal Conference on *Regional Development*, Ballyhaunis, May 27. S. Grimes
16. "Rural Change in the North-West during the 1970s" read at Conference of Irish Geographers, University College, Cork, May. S. Grimes
17. "Some Key Changes in Irish Social Structure within which Religious Values have to be Implemented" read to National Conference of Priests of Ireland, Dublin, September 16. D. Hannan
18. "Discussant's Response" to paper by Dr. Liam O'Dowd on "Sociological Research in Ireland: An Overview and Proposed Strategy" read at Royal Irish Academy National Committee for Economics and Social Sciences Conference on *The State of Social Science Research in Ireland*, Dublin, October 23. D. Hannan
19. "Multisector Modelling of the Irish Economy" read at Eighth International Conference on *Input-Output Techniques*, Sapporo, Japan, July 28-August 2. E. W. Henry
20. "Christianity, Economics and the Economy" lecture to UCD Newman Group, April 24. K. A. Kennedy
21. "Industrial Policy and the Public Sector" read to Dublin Institute of Technology Conference on *Unemployment — The Challenge to Society*, Dublin College of Catering, July 3-4. K. A. Kennedy
22. "The Economic Recovery — Fact or Fiction?" read to Luncheon Meeting of members of German-Irish Chamber of Industry and Commerce, Dublin, September 17. K. A. Kennedy
23. "The Future for Industry in Ireland" at presentation of ESRI Medal to the winner of Second Year Market Structures Project, UCD Economics Society, November 13. K. A. Kennedy

24. "The Current and Prospective Economic Situation" delivered to dinner gathering of participants at New Ireland Assurance Company Annual Investment Seminar, Dublin, November 21. K. A. Kennedy
25. "The Future of the Common Agricultural Policy" read at Ciba-Geigy Conference, Dublin, January 22. R. O'Connor
26. "The Implications for Irish Fisheries of the Latest EEC Enlargement" read to International Seafood Conference, Rimouski, Quebec, Canada, August 14. R. O'Connor
27. "Church and State Reactions to Breakdown of Marriage in Ireland" read to clerical students at Avila, Morehampton Road, May 9. K. O'Higgins
28. "Divorce and Remarriage" read to Co-operators' Meeting, Salesian College, Ballinakill, Co. Laois, April 12. K. O'Higgins
29. "An Alternative Approach to Economic Strategy for the Republic of Ireland" read to Action on Poverty Conference on *Poverty — An Irish Perspective 1986*, All Hallows College, Dublin, April 12. E. O'Malley
30. "Irish Economic Development", Seminar in *Understanding Development Programme*, Kimmage Manor, Dublin, April 21. E. O'Malley
31. "Employment Trends in Manufacturing Industry" read to Irish Congress of Trade Unions Conference on *Employment Perspectives — the Medium-Term Outlook*, Dun Laoghaire, May 20. E. O'Malley
32. "The Medium-Term Economic Outlook" paper read to seminar on "The Economic Outlook", Institute of Public Administration, July 10. E. O'Malley
33. "Ireland's Experience of Export-oriented Industrialisation" delivered to Asia Partnership for Human Development Conference on *Free Trade Zones — Economic and Human Consequences*, Manila, Philippines, September 26-October 1. E. O'Malley
34. "Regional Policy in the European Context" delivered to MBA students, University College, Cork, January 29. M. Ross
35. "The Role of Local Authorities in Local Development" read at Conference on *Joint Action for Jobs*, Russell Peace Foundation, London, February 26. M. Ross
36. "New Strategies for Rural Areas" read at Irish Young Federalists Symposium on the Common Agricultural Policy, Dublin, November 3. M. Ross
37. "Society and Crime" paper read at Society and Politics Society, University College, Galway, April 9. D. B. Rottman
38. "Crime in the Republic of Ireland" read (*in absentia*) to National Association of Probation Officers/Probation Officers' Branch of the Union of Professional and Technical Civil Servants Conference on *Crime in Ireland: Crisis or Manageable Problems?*, Stranmillis College, Belfast, September 11. D. B. Rottman
39. "The Challenge of Long-Term Unemployment" presented at EEC Symposium on *Education, Training and Labour Market Policy*, Noordwijkerhout, The Netherlands, April 29. J. J. Sexton
40. "The Economics of Irish Salmon Fishing" paper to Institute of Fisheries Management Conference, University of Ulster, Coleraine, September 9-11. B. J. Whelan
41. "Discussant's Response" to paper by Dr. John Blackwell on "Social Science Research in Ireland: Economics" read at Royal Irish Academy National Committee for Economics and Social Sciences Conference on *The State of Social Science Research in Ireland*, Dublin, October 23. B. J. Whelan

## XV ESRI SEMINARS

**S**EMINARS were held fortnightly during each academic term as follows:

### *Hilary 1986*

- |  |  |
|--|--|
| Young People in Transition: Follow-Up Survey of 1981/82 School Leavers Carried Out in Late 1984. | D. O'CONNOR,<br>S. MULLIN (Youth<br>Employment Agency) |
| Job Creation Policies: Towards a Macroeconomic Cost Benefit Analysis.                            | J. BRADLEY   |

### *Trinity 1986*

- |  |   |
|--|---|
| National Accounts Deflation: An Input-Output Repricing Exercise. | E. W. HENRY   |
| The National Debt and Economic Policy in the Medium Term.        | J. FITZGERALD   |
| Clerical Employment: Have Job Openings Declined?                 | D. HANNAN,<br>B. HALPIN                                 |
| Rural Resurgence in the North-West Region in the 1970s.          | S. GRIMES<br>(University College,<br>Galway)            |
| Increasing Returns and Industrial Location.                      | W. BRIAN ARTHUR<br>(Stanford University,<br>California) |

### *Michaelmas 1986*

- |   |   |
|---|---|
| Proposed Study of Income Distribution, Poverty and Life Styles in Ireland.  | T. CALLAN<br>B. J. WHELAN                   |
| Recent Developments in Input-Output Techniques.   | E. HENRY                                    |
| Fish Farming in Ireland.  | R. O'CONNOR                                 |
| Economic Assessment of a Recreational Resource: An Application of the Clawson Method to the Clonmacnoise Heritage Zone. | A. MATTHEWS<br>(Trinity College,<br>Dublin) |

## XVI RESEARCH PROJECTS IN PROGRESS AT 31 DECEMBER 1986 (\*Indicates new project begun in 1986)

<i>Researchers</i>	<i>Projects</i>	<i>Present Stage</i>	<i>Next Stage</i>
<i>I ECONOMIC FORECASTING AND MODELLING</i>			
T. J. Baker, S. Scott, T. Quinn	Study of current trends in the Irish economy.	Continuous.	Published as <i>QEC</i> .
J. Bradley, C. Prendergast	Analysing economic growth: Ireland 1960-1984.	Research on this topic has been suspended pending completion of Department of Finance project (below).	

<i>Researchers</i>	<i>Projects</i>	<i>Present Stage</i>	<i>Next Stage</i>
J. Bradley	European project for a multi-national macrosectoral model.	Finalisation of Hermes contract, Phase II.	Phase II: March 1987.
*J. Bradley, J. FitzGerald, A. Storey, D. Hurley (DoF), L. O'Sullivan (DoF) ESRI Staff	Operationalising the ESRI medium-term model for use by Department of Finance for projections and policy analyses.	Completion of revisions in light of 1985 national accounts.	Testing, implementation and use.
	Medium-term economic review and outlook for Ireland.	Continuous.	Published as <i>MTO</i> .
<i>II ECONOMIC GROWTH</i>			
E. O'Malley	The Irish engineering industry in an international context.	Second draft completed.	Review of second draft: January 1987.
<i>III THE INTERNATIONAL ENVIRONMENT</i>			
J. FitzGerald	The determinants of Irish imports.	Completing second draft.	Review of second draft: January 1987.
*J. FitzGerald, B. Whelan, T. Quinn, J. Williams	The consequences for cross-border trade between Southern and Northern Ireland (for EEC).	Data collection.	Report to EEC: March 1987.
<i>IV REGIONAL ISSUES</i>			
No research in progress.			
<i>V THE PUBLIC SECTOR</i>			
*R. Breen	Evaluation of manpower programmes (Department of Labour).	Report submitted to Department of Labour.	
T. Callan, E. O'Malley, D. Madden C. Hughes	Irish government expenditure in an international comparative context. Financial aspects of the Irish civil service superannuation scheme.	Awaiting comments from NESC on first draft. Preparation of second draft.	Revision in light of NESC comments. Review of second draft: Spring 1987.
*R. Pye	Experiences to date of computerisation in civil service.	Review of background literature and data collection.	First draft: July 1987.
M. Ross	<i>Costs and Wage Rates in Public Employment — Part I: Wages, salaries and pensions in central government and in the post office in recent decades.</i>	<i>Internal reading of Part I in progress.</i>	First draft of Part II: April 1987.
<i>VI PRICES AND INCOMES</i>			
W. M. Bateman	Trade union membership in the Republic of Ireland: a theoretical and empirical analysis.	Preparation of first draft.	First draft: March 1987.

<i>Researchers</i>	<i>Projects</i>	<i>Present Stage</i>	<i>Next Stage</i>
<b>VII DEMOGRAPHY AND LABOUR</b>			
*S. Grimes, D. Hannan	Underlying causes of non-urban growth in Ireland in the 1970s.	Data collection and analyses.	First draft: Spring 1987.
J. J. Sexton	Analysis of changing structure of the labour force and trends in employment and unemployment.	Research of this project has been suspended until J. J. Sexton returns from leave of absence.	
J. J. Sexton	Evaluation of measures to assist long-term unemployed in selected OECD countries.	Report completed; submitted to OECD.	Consideration by OECD.
J. J. Sexton, B. J. Whelan, J. Williams	Transition from school to work and early labour market experience.	Internal reading of first draft in progress.	Revision in light of readers' comments.
*C. T. Whelan	Evaluation of Irish Productivity Centre/NI Labour Relations Agency shared learning project.	First draft report presented to evaluation workshop.	Final report: February 1987.
<b>VIII SOCIAL POLICY</b>			
*T. Callan, S. Creighton, D. Hannan, D. Rottman, B. Whelan	Survey of income distribution, poverty and usage of state services.	Data collection and analysis.	Interim report for EEC: May 1987.
E. E. Davis, M. Fine-Davis (TCD)	Continuing social survey (CSS) a) CSS 1 (health and housing) b) CSS 2 (working life)	a) External referee's report under consideration. b) Integration and revision of EEC commissioned reports.	
D. Hannan, M. Boyle	Differentiation of pupils and curricula in Irish second-level schools.	Completing second draft.	Review of second draft: February 1987.
K. O'Higgins	Profiles of children in care.	Second draft completed.	Review of second draft: January 1987.
D. Rottman, M. Reidy	Redistribution through state social expenditure and taxation in Republic of Ireland 1973-80.	First draft submitted to NESC.	Awaiting comments on first draft from NESC.
C. T. Whelan, B. J. Whelan	Adjustment to retirement in Ireland.	Preparation of first draft.	Internal reading of first draft: February 1987.
<b>IX VALUES AND ATTITUDES</b>			
J. W. Grube, M. Morgan	Smoking, drinking and other drug use among Dublin post-primary pupils.	One ESRI paper published.	First draft of further paper: May 1987.
<b>X DATA AND METHODOLOGY</b>			
D. Conniffe, C. Keogh	Estimates of household equivalence scales from Irish household survey data.	Data processing and statistical analysis.	First draft: April 1987.

## Appendix D

### ABSTRACT OF ESRI PAPERS PUBLISHED IN 1986

*(The Institute is not responsible for either the content or the views expressed in published papers).*

*(i) General Research Series*

Paper No. 127, Mical Ross, *Employment in the Public Domain in Recent Decades.*

The paper reviewed the numbers employed in the public domain since the foundation of the State in 1922, and focuses on those employed by the central government and local authorities. Further papers will deal with the numbers employed in public enterprises and the costs and wage rates in the various sectors. A general classificatory framework was developed for the various types of public employment and criteria were adopted for determining whether a job was public or private. The yardstick for inclusion was whether a person derived half their earned income from public sources, rather than the nature of the function or the derivation of authority.

The paper brings together, for the first time, information from the various departmental data sources in a time series and supplements these sources where records were sparse. The data are presented under nine main sectors, namely: The Civil Service; the former Department of Posts and Telegraphs; industrial Civil Servants; the Judiciary and Oireachtas; the Defence Force; the Gardai; Local Authorities; Health Boards and Voluntary Hospitals; Education. Two final sections provide a synthesis of the material. It emerges that aggregate employment in the public domain, including State-sponsored bodies, increased by about 40 per cent in the period 1971 to 1983 from 229,248 to 321,752, but has stabilised in the 1980s. Estimates were made of recruitment and retirements for the Civil Service and the Department of Posts and Telegraphs. The number of women expanded as a proportion of total employment up to the mid-seventies and then stabilised at about four women for every five men in the central Civil Service. The 1981 decision that only one vacancy in every three could be filled, has implications for the female share, since a higher proportion of departing staff, than of their replacements, were women.

The study concludes with a number of recommendations designed to improve the quality and relevance of the published sources of information on employment levels in the public domain.

Paper No. 128, E. W. Henry, *Multisector Modelling of the Irish Economy, with special reference to employment projections.*

By means of an Input-Output (I-O) Model, the paper examined the feasibility and consistency of the assumptions and results of the Government's Plan "Building on Reality 1985-1987". It also investigated the industrial and employment implications of the Plan. It was found that employment would be about the same as projected in the Plan but significant, though compensatory, differences were found in regard to industry and services. In regard to imports and the balance of payments, the estimates of both the I-O model and the Plan were reasonably close.

A further objective was to show what high employment in a future year (1992) would imply by way of exports, imports, GNP, household and Government expenditures, etc. The results indicated that in the likely event of productivity increases continuing into the 1990s, then Ireland's only way of expanding or even maintaining employment was a massive increase in exports.

Paper No. 129, Richard Breen, *Subject Availability and Student Performance in the Senior Cycle of Irish Post-Primary Schools.*

At present over 65 per cent of entrants to post-primary education remain in school to sit the Leaving Certificate examination. The study examined variations in the subjects available to

students, the choices they made, and students' academic performance in the senior cycle.

Science subjects and modern languages were found to be more popular among middle-class pupils. Technical subjects, and among girls, commerce subjects, tend to be taken by great percentages of working class pupils. Some of the difference in take-up of subjects arises because of pupils' own choices. The majority of class difference in take-up of subjects, however, is due to class specific patterns of subject availability. The distribution of pupils over secondary, vocational, community and comprehensive sectors is strongly related to gender and class origins. As a result the curricula characteristics of the different school types, become, to some extent, the curricula characteristics of social classes. Furthermore, within a particular sector, e.g., the secondary sector, social class differences in subject availability persist indicating that the curricula are related to the social class composition of the pupil body.

In regard to academic performance in the senior cycle, the study concluded that the majority of the difference in average senior cycle performance between pupils in the different types of school arises because of differences in the pupils rather than because of the type of school (secondary, vocational or community) they attend. Once allowance is made for differences between pupils in factors such as home background, then the type of school attended has little influence on senior cycle performance. Among boys, there are no significant variations as between performance in each of the school types. Among girls, vocational schools appear to depress senior cycle performance very slightly, though in substantive terms the effect is small. Differences between families in income and in ownership of resources appear to be of much less direct importance in influencing performance than does the possession of particular competences, social skills and attitudes.

The study suggested that the importance of subject provision in shaping take-up rates lends weight to the argument for amalgamation of, or greater co-operation between, local schools in attempting to offer a range of subjects that will allow the expression of the diverse abilities of pupils. At present, restricted curricula in small schools are due, not so much to the existence of isolated post-primary schools in rural areas, as to competition among a large number of schools within a locality for the available pupils. Extending curricular provision via co-operation in such cases may not only be beneficial from an educational point of view but may also be a more cost-effective use of limited resources.

Paper No. 130, Gary Keogh and Brendan J. Whelan, *A Statistical Analysis of the Irish Electoral Register and its Use for Population Estimation and Sample Surveys.*

The prime purpose of the Electoral Register is to serve as a list of persons in the State who are eligible to vote in national and local elections. This study shows how it can be used for estimating population and net migration and to select samples for social studies. The accuracy of the Register was examined and models were developed for entry and exit patterns and for estimating population and migration.

The study estimated that there may have been up to 157,000 redundant names on the Register in recent years, made up of deceased persons, emigrants who were still registered and persons who had changed address but who were still registered at their old address. Many of the last category, about 128,000, were also registered at their new address. A special problem existed in the Dublin Borough Register where there may have been up to 45,000 redundant names out of a total of about 387,000, i.e., nearly 12 per cent. As well as the problem of redundant names there were about 67,000 people entitled to vote who were not registered.

An analysis of the Register indicated that the pattern of migration had shifted from net immigration in the early 'eighties to one of substantial net emigration in recent years. The report found that the Register was probably the best generally available list for selecting samples for social surveys and that, in general, the errors on the Register did not greatly affect the validity of most survey results. However, the study did identify certain sub-populations for which the Register was less appropriate as a sampling frame. Among these were recently formed households and those who moved frequently.

Paper No. 131, David B. Rottman, A. Dale Tussing and Miriam M. Wiley, *The Population Structure and Living Circumstances of Irish Travellers: Results from the 1981 Census of Traveller Families*.

The paper reported the results of the Census of Travelling People carried out in 1981. The study had three central aims:

- (i) to describe the size and composition of the population of the Travellers and household structures;
- (ii) to report on the geographic distribution of Travellers by place of current and past residence, duration of residence and patterns of migration;
- (iii) to examine the living conditions experienced by Travellers, including types of housing and access to services.

The Irish Travellers are a small uniquely disadvantaged minority itinerant sub-group living on the periphery of Irish society. The 1981 Census showed that the total population of Travellers was 2,432 families comprised of 14,821 persons. Of these, 1,132 families with 5,946 members were living along the roadside in caravans, wagons, huts and tents. Just less than half of all travellers lived either in Local Authority "standard housing" or in "chalets". Only 13 per cent lived on serviced sites.

It was found that the population of Travellers was growing rapidly, more than doubling over the previous two decades with an average annual growth rate of 6.7 per cent. Between 1961 and 1981 the proportion of Traveller families living in Co. Dublin rose from 4 per cent to 24 per cent. Among Travellers living on the roadside, those living in Counties Dublin, Galway, Tipperary, Meath and Cork accounted for over one half of all roadside Travellers.

The age structure of Travellers was radically different from the general population, with large numbers of infants and children and few older people. Infant and child mortality was extremely high. Family size varied from one to 19 persons and averaged 6.1 persons.

Marriage and fertility rates were substantially higher than in the general population and the average age at marriage was much lower. Average life expectancy of Travellers was substantially lower than for the rest of the population and levels of illness and deprivation were intolerable.

In regard to the settled population there were considerable regional variations in access to basic facilities (water taps, toilets, electrical supplies, etc.). The North-West and Southern Health Board areas were best and the Eastern Health Board area the worst with regard to provision of these facilities. Travellers not in "standard housing" did not have access to any of these services. The main reason for the persistence of deplorable conditions for roadside Travellers was the failure by Local Authorities to provide housing in the quantity and form required by those in need.

The report recommended the development of a national policy to meet the accommodation needs of Travellers. While this policy would be implemented through the Local Authority network, the tasks of setting and monitoring the implementation of area-based targets should be firmly based within a central government agency. The report also recommended immediate attention to the health and educational needs of Travellers.

Paper No. 132, Joel W. Grube and Mark Morgan, *Smoking, Drinking and Other Drug Use Among Dublin Post-Primary School Pupils*.

The study presented the results of a three-phase survey of almost 3,000 randomly selected post-primary school pupils in the Dublin area which was carried out in March and April 1984 and March 1985 and concerned:

- (i) the prevalence of use of various substances and
- (ii) factors associated with usage.

It was found that the level of cigarette smoking was extremely high by any standard. Overall, 67 per cent of all pupils surveyed had smoked at some time, and 25 per cent were regular (daily) smokers. In the case of 17 year olds, the incidence was higher, 74 per cent and 30 per cent respectively. In comparison, by the same definition the US had 18.7 per cent regular smokers at age 17.

As regards drinking, two-thirds of all pupils had drunk alcohol at some time and over one-third were regular drinkers. In the case of 17 year olds the incidence was higher, 80 per cent and 50 per cent respectively. Beer (including lager and stout) was the most popular drink, with wine and spirits next and cider being drunk least often. In comparison with other countries, the



number of total abstainers was high. However, the proportion who drank regularly was between the rates of high consumption and low consumption countries. Over one-fifth of all the pupils had tried other drugs (30 per cent of 17 year olds). Almost 13 per cent had used glue or other inhalants and a similar percentage had used marijuana. Use of marijuana directly increased with age, 25 per cent of 17 year olds had experimented. Overall, one in 12 pupils were regular users. Comparison with other countries suggested that the rate of inhalant use was relatively high. However, the use of other drugs (i.e., hard drugs) was low by international standards.

The study also investigated factors associated with the use of substances in areas such as gender differences, parental example, etc. It was found that there were no social background differences in regard to the use of any substance but that use of substances by friends was a very strong associate of pupils' use. The study strongly recommended intervention programmes. Techniques which help pupils to withstand pressure seemed to have promise.

Paper No. 133, Robert O'Connor, *A Study of the Bovine Tuberculosis Eradication Scheme.*

The study discussed the nature of bovine tuberculosis, reviewed the operation of the eradication scheme since its inauguration in 1954 and outlined the Exchequer costs to date. It examined the operation of similar schemes in other countries and made recommendations in regard to the approach to be adopted for the eradication of the disease in Ireland.

The report stated that a scheme for the eradication of bovine tuberculosis was inaugurated in 1954. By 1965 after the removal of 830,000 reactors, the whole State was declared free of the disease. Nevertheless, twenty years later, following the removal of a further 620,000 reactors, it was estimated that 2 per cent to 3 per cent of cattle herds were still affected. Because of the method of measurement, however, the exact incidence of the disease is not known. The cost of eradication to the State at 1985 prices has been almost £900 million.

Bovine tuberculosis has proved to be a very difficult disease to clear up. The infective dose is very low; there is no immunity based on age or sex; very often there is no clinical evidence to alert the herdowner to the presence of the disease; transmission of the disease occurs 24 hours a day throughout the year and is accelerated by cattle movements. In addition, infection spreads rapidly among poorly fed animals or animals under stressful conditions. There is no sound blood or other serum test for diagnosing the disease. The tuberculin skin test is the most reliable diagnostic method available but is not foolproof and can give false positive/negative reactions. The chief difficulties and defects inherent in the operation of the scheme in Ireland are: the high volume of cattle movement, defective testing, stop-go funding policies, tag switching, illegal movement of animals, and failure to depopulate seriously infected herds.

The report details five critical recommendations for the successful management of the eradication scheme. These are:

- (i) Testing should be carried out by Department veterinarians on a random sample of herds each year to determine the exact incidence of the disease. Bovine tuberculosis cannot be eliminated unless this incidence is known.
- (ii) A comprehensive plan of operation should be developed which would include annual targets for disease incidence.
- (iii) The plan should include annual rounds of testing of all herds in the State, without stoppage for three years. At the end of this period progress should be reviewed and new plans adopted if necessary.
- (iv) The required funds should be made available by the Government for round testing but farmers, through levies on cattle, beef and milk, should be asked to contribute 75 per cent of the variable costs of the testing programme. If farmers have to pay heavy levies, they are unlikely to tolerate in future years, many of the past inadequacies.
- (v) If at the end of 1990 it is found that targets are not being met, the operation of the scheme should be taken out of the Department of Agriculture and its operation transferred to an Executive Office or Semi-State body.

(ii) *Medium-Term Outlook*

No. 1, Peter Bacon, *Medium-Term Outlook: 1986-1990*.

The paper, which was the first volume in what is intended to be a continuing annual series, examined the Irish economy in a medium-term context. As such it supplemented the regular *Quarterly Economic Commentary* which deals with current economic developments. The paper reviewed the main developments in the international economy in the past five years and examined the prospective scenarios to the end of the decade. The effects of international developments and Irish economic policies on the domestic economy were examined. The medium-term outlook for the economy was discussed, including prospects for growth of national output, employment, income and expenditure and the evolution of the public finances and balance of payments to the end of the decade. The paper also included special articles on "Assessment of Proposals for Changes in the Common Agricultural Policy" (R. O'Connor) and "Foreign-owned Industry in Ireland: Performance and Prospects" (E. O'Malley).

(iii) *Policy Research Series*

Paper No. 6, D. Scott, J. Bradley, J. D. FitzGerald and M. Ross, *The Economic Consequences of European Union*.

D. Scott, "Background".

D. Scott discussed the background to the goal of European union either as the culmination of a process of integration or as a stage in that process. Up to the mid-1970s progress had been made in dismantling national protection and the adoption of a common external tariff. The community had failed, however, in such matters as establishing a common currency, structural policies, the development of the internal market, and eventual economic and monetary union. The Community's failure to operate as a coherent economic unit led to a poor performance during the recession as compared to the USA and Japan. Three requirements were seen as necessary for economic recovery and political integration, namely, freeing the market by the removal of barriers, providing for speedy decisions by limiting or removing the veto, and establishing the means for the levelling up of the economies of all regions.

J. Bradley, "Completing the Market: Macroeconomic Consequences".

The paper focused on the economic aspects of the report of the Committee for Institutional Affairs (the Dooge Report) to the European Council which set as a priority objective the creation of a homogeneous internal economic area through:

- (i) completion of the Treaty;
- (ii) creation of a technological Community;
- (iii) strengthening the EMS; and
- (iv) mobilisation of the necessary resources.

Of these items (i) and (iii) were seen as the main policy recommendations of the committee. In regard to (i) the policies proposed were: the free movement of labour and capital; increased competitiveness by removing all measures distorting trade; and promotion of economic convergence. In regard to the EMS the proposal that all member states should participate, would eliminate a major source of exchange rate uncertainty for Ireland.

J. D. FitzGerald, "The Economic Implications of Tax Harmonisation".

The paper examined the implications for the Irish tax system and the economic implications for Ireland of tax harmonisation within the EEC. Apart from the introduction of a common VAT system among all Member States, attempts to harmonise indirect tax (including excise tax) and corporation tax systems, have consistently failed. The proposals for greater tax harmonisation originated from a desire to promote the development of the internal community market by abolishing all economic frontiers. The abolition of border controls without tax harmonisation would result in considerable trade distortions.

Since Ireland's excise taxes accounted for 10 per cent of GDP as against 4.4 per cent for the EEC as a whole, harmonisation would involve a substantial reduction of tax. Revenue from VAT showed considerably less diversity. In regard to company taxation, harmonisation would require substantial changes in the Irish system. Taxes on personal incomes and social security taxes would not be affected.

In regard to the economic implications, tax harmonisation could pose serious problems for Ireland's industrial development in the future and indicated the need for special arrangements to allow low income areas to attract and hold industry. For example, the harmonisation of corporation tax at the 44-45 per cent level and the reduction in capital and other allowances would mean a radical change for firms in the manufacturing sector. The loss of revenue from excise taxes would pose serious problems for Government either in raising other taxes or reducing expenditure. However, in the longer term the Commission proposals would fit in with the proposals of the Irish Commission on Taxation.

M. Ross, "Subsidiarity, Regional Development and Nation Building in Europe".

The paper examined the way in which the European Economic Community is organised and the proposals put forward in the Draft Treaty on European Union with particular reference to the relationships between the core and the periphery of the Community. Through an analysis of the resources available to the Community, the structure of power and information systems, the paper concluded that the core of the EEC is weak but committed to Europe's development. On the other hand, the periphery comprising the member states were regarded as mobilised, influential but not participant because of the fears that national identities and initiatives would be swamped. Such fears frustrate the potential of Europe to forge ahead to the benefit of all. Ways of allaying them are suggested.

Paper No. 7, John D. FitzGerald, *The National Debt and Economic Policy in the Medium Term*.

The study detailed the actual growth in the national debt/GNP ratio in the first half of the 1980s and outlined its possible future growth over the rest of the decade. The economic implications of the methods chosen to finance the debt were also examined.

The level of Exchequer borrowing rose rapidly during the 1970s, so that Ireland entered the 1980s with a high and rapidly increasing volume of debt. As a result the Irish economy was extremely vulnerable to any change in world interest rates. The analysis showed that at least one quarter of the current budget deficit in 1985 could be directly attributed to the rise in interest rates. The rise in domestic real interest rates, which was largely influenced by foreign rates, had a very severe impact on the level of physical investment in the economy. The private sector reduced investment in physical capital, and increased investment in financial assets, thereby affecting the productive capacity of the economy. The paper concluded that the policy adopted by the Department of Finance over the period 1980-1985 on the composition of foreign borrowing was broadly correct. The decisions taken as to the proportion of the debt to be financed abroad, however, were more questionable.

In regard to the period 1986-1990 four different options or scenarios were considered. These covered low and high Exchequer borrowing and low and high interest rates. The analysis showed that even a mild fiscal expansion over the rest of the decade would result in the national debt/GNP ratio rising inexorably even if real interest rates were to fall over the period. If a much more restrictive budgetary policy were adopted, the rise in the debt/GNP ratio could be halted and reversed. If interest rates remained at their current levels, the debt/GNP ratio would begin to fall in 1990. If interest rates were to decline towards their historic norm, the debt/GNP ratio would begin to fall as early as 1988.

In regard to borrowing, an important factor was the prospective disappearance of the current balance of payments deficit. The high level of government borrowing involved a future commitment to major changes in the distribution of income which had important implications for equity between different groups. The cost of financing future interest payments would fall on the taxpayer at large resulting in some inefficiency and loss of output. As long as the current high real interest rates persisted much of the potential investment needed to expand the productive capacity of the economy would be rendered unprofitable. Accordingly, in choosing the composition of government borrowing in the future, an important consideration should be the need to minimise domestic interest rates. The volatility of private capital outflows in the recent past reinforced the need to tackle the problem of the mushrooming national debt. If the debt problem were tackled, the effect on private capital flows could be substantial, resulting in a rapid reduction in domestic interest rates.

## *Appendix E*

### *OUTLINE OF NEW PROJECTS BEGUN IN 1986*

#### *I Economic Forecasting and Modelling*

J. Bradley, J. FitzGerald, A. Storey, D. Hurley and L. O'Sullivan, "Operationalising the ESRI Medium-Term Model for Use by Department of Finance for Projections and Policy Analyses".

The purpose of this project is to implement in the Department an operational version of the ESRI medium-term model, together with procedures for carrying out medium-term policy analysis over the period 1987-1991. At present the Department operates a version of the original Model-80 Model for policy and budgetary analyses.

The stages of the project are as follows:

1. Update of data bases covering the period up to 1985 National Accounts, and setting-up procedures for future use in the Department.
2. Re-specification and re-estimation of the model using the most recent National Accounts data.
3. Testing the model.
4. Construction of benchmark projections for period 1987-1991.
5. Instruction of Department staff, and development of report generation software.

#### *III The International Environment*

J. FitzGerald, B. Whelan, T. Quinn, J. Williams, "The Consequences for Cross-Border Trade between the Republic of Ireland and Northern Ireland of Modification towards Harmonisation of Rates of Value Added Tax and Excise Duties within the European Common Market".

The aim of this study is to examine the nature and extent of cross-border shopping by residents of the Republic and of Northern Ireland. The study, which has been commissioned by the EEC, will investigate the sensitivity of this trade to cross-border price differences of varying magnitudes, and the effects on trade of possible harmonisation of rates of indirect taxation within the EEC.

Differences in tax rates between Northern Ireland and the Republic of Ireland affect the prices of similar goods on either side of the common land border. As a result there has been a varying incentive for consumers in both parts of the island to shop across the border for certain products. Although trade in the past has been two-way it is felt that the bulk of the trade at present involves purchases by residents of the Republic in Northern Ireland. Goods subject to excise taxes figure most prominently in this trade. Relatively minor misalignment of the excise taxes in the two jurisdiction, can result in substantial price differences. Differences in VAT rates have also played a significant role in inducing tax-avoiding cross-border trade.

#### *V The Public Sector*

R. Pye, "The Experience to Date of Computerisation in the Civil Service".

The project will review developments in computerisation in the Civil Service in recent years. It will examine expenditure to date on computer systems, staff turnover, expertise, training, consultancy and the advance of micro-computer systems as opposed to mainframe installations. The general policy adopted by various Departments will be outlined and the special problems encountered at both an organisational and a technical level examined.

A survey of Government Departments will be undertaken to supply some of the required statistical data, including an inventory of existing systems. A census of serving computer staff is also envisaged. An examination of the experience to date in other countries (as well as in the Irish public and private sectors) will be undertaken to amplify the issues of greatest significance and facilitate an accurate overall assessment of progress to date in the Civil Service.

R. Breen, "Evaluation of Manpower Programme".

The project, which was commissioned by the Department of Labour, involves carrying out a consultancy role for a steering group composed of representatives from those agencies involved in manpower programmes, i.e., Department of Labour, National Manpower Service, AnCO, Department of Education, CERT and the Youth Employment Agency. The long-term aim of the project is to provide the means for better evaluation of the effectiveness of manpower programmes and to carry out detailed studies of the effectiveness of selected schemes. The project will involve:

- (a) Recasting the objectives of approximately 20 programmes in operational terms for the purposes of evaluation;
- (b) Assessing the utility of data routinely gathered in connection with these programmes for monitoring the programmes' effectiveness; and
- (c) Recommending revised ways of data gathering to make data roughly comparable across schemes, to improve the potential for evaluation and assessment and to meet the requirements of programme managers.

S. Grimes and D. Hannan, "The Underlying Causes of Non-Urban Growth in Ireland in the 1970s".

Counterurbanisation has been a focus of research in industrialised countries for the past ten years or so. In Ireland the research available on the theme suggests that much of the change has been in the form of suburbanisation or urban overspill. This project will investigate the phenomenon in the Irish context. The availability of computerised small area statistics at the district electoral division (DED) level for both the 1971 and 1981 Censuses of Population makes it possible to carry out a detailed, spatial analysis of the local level of demographic and employment change in the 1970s. The 1970s were characterised by considerable sectoral employment change in rural areas, with a large flow out of agriculture and into non-farm employment. This resulted in a complex relationship between farm and non-farm employment at the rural household level. Since most non-farm employment was centralised, a key question to be answered is what kind of settlement adjustment accompanied these changed labour force conditions?

The initial stage of the study will be confined to the north-west region — Counties Sligo, Leitrim and Donegal. At a later stage it is proposed to select a random sample of 500 or so DEDs, add whatever additional socio-ecological and economic data are necessary and analyse the correlates of non-urban growth at a national level.

C. T. Whelan, "Evaluation of Irish Productivity Centre/Northern Ireland Labour Relations Agency Shared Learning Project".

The project, which has been commissioned by the Irish Productivity Centre (IPC) and the Northern Ireland Labour Relations Agency (NILRA), will evaluate a "Shared Learning Project" sponsored by the EEC and in which five companies from the Republic of Ireland and four companies from Northern Ireland are participating. The aims of the shared learning project are to develop practical applications of employee involvement in some areas of organisational change. The project will involve, (i) attendance at four project workshops; (ii) organising an evaluation workshop; (iii) synthesising the reports from the individual organisations and providing an overall report to the IPC and NILRA.

### *VIII Social Policy*

T. Callan, S. Creighton, D. Hannan, D. Rotman, B. Whelan, "Survey of Income Distribution, Poverty and Usage of State Services".

The main aims of the project, which has been commissioned by the Commission of the EEC and the Department of Social Welfare are as follows:

- (i) to establish the current level and nature of poverty in Ireland, and the adequacy and effectiveness of social welfare programmes in meeting serious needs. The data will also allow analyses of the dynamics of poverty and its intergenerational transmission;
- (ii) to measure the effects of existing and alternative policies of direct taxation, social welfare, health, housing and education;
- (iii) to assess the costs and benefits of a continuing annual or biennial survey on income, poverty and usage of state services, thus providing the means to review the effectiveness of public policy programmes, and the necessary database to model the effects of policy changes, including tax/transfer changes.

The project will involve a large-scale national household survey to collect data on incomes, use of state services and levels of poverty. The data will be gathered in two phases. The first phase will consist of a survey of 4,000 households selected randomly from the Electoral Register. In the second phase the poorest 1,000 households will be re-interviewed, together with 500 of the other 3,000 households from the original sample. The data will complement the 1987 Household Budget Survey by gaining more detailed and comprehensive information in a way which is explicitly designed to allow analysis of policy effects.

The project is part of a major research programme under way in several EEC countries.

*Appendix F*

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\*Life Member.



Appendix G

**THE ECONOMIC AND SOCIAL RESEARCH INSTITUTE**  
4 Burlington Road, Dublin 4

*INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st DECEMBER 1986*

INCOME:	year ended 31/12/86		year ended 31/12/85	
	£	£	£	£
<i>Grants:</i>				
Grant-In-Aid		1,175,000		1,113,200
Grants from Projects		346,247		306,372
		<u>1,521,247</u>		<u>1,419,572</u>
<i>Miscellaneous Income:</i>				
Members Subscriptions		29,790		27,845
Sale of Publications		25,568		24,274
Rent Receivable		39,000		38,000
		<u>1,615,605</u>		<u>1,509,691</u>
<b>EXPENDITURE:</b>				
<i>Salaries:</i>				
Administration	122,994		118,580	
Research	614,841		584,293	
Survey Unit Administration and Technical Staff	139,221		125,947	
Clerical and Other Staff	240,939		231,049	
	<u>1,117,995</u>		<u>1,059,869</u>	
<i>Less: Transfer to Economic and Social Studies Account</i>	9,203		8,935	
	<u>1,108,792</u>		<u>1,050,934</u>	
<i>Field Staff Fees</i>	<u>57,492</u>		<u>44,276</u>	
<i>Fellowships</i>	<u>29,577</u>		<u>27,349</u>	
<i>General Expenses</i>				
Printing and Stationery	67,377		55,799	
Heat, Light, Maintenance and Cleaning Expenses	46,637		54,876	
Travel and Subsistence	20,723		18,564	
Professional Fees	3,504		3,458	
Postage, Insurance, Telephone and General Expenses	39,039		35,245	
Rent and Rates	174,689		174,673	
Data Processing	61,171		41,853	
<i>Depreciation: Library Books</i>	8,884		9,030	
	<u>422,024</u>		<u>393,498</u>	
		<u>1,617,885</u>		<u>1,516,057</u>
<i>Excess of Expenditure over Income for Year</i>		(2,280)		(6,366)

The attached Notes numbered 1 to 4 form an integral part of these Accounts and should be read in conjunction therewith.

Signed: Eugene McCarthy } *Members of Council*  
Patrick Lynch }  
J. Roughan } *Secretary*

**THE ECONOMIC AND SOCIAL RESEARCH INSTITUTE**  
**4 Burlington Road, Dublin 4**  
(A Company Limited by Guarantee and not having a Share Capital)

*BALANCE SHEET AS AT 31st DECEMBER 1986*

	year ended 31/12/86		year ended 31/12/85	
	£	£	£	£
<b>FIXED ASSETS</b>				
Furniture, Fitting and Equipment (At Cost)	107,278		107,278	
Additions during the Year	—		—	
	<u>107,278</u>		<u>107,278</u>	
<i>Less: Aggregate Depreciation</i>	103,806	3,472	103,806	3,472
Library Books	96,427		87,397	
Additions during the Year	8,884		9,030	
	<u>105,311</u>		<u>96,427</u>	
<i>Less: Aggregate Depreciation</i>	104,915	396	96,031	396
<b>TOTAL FIXED ASSETS</b>		<u>3,868</u>		<u>3,868</u>
<i>Current Assets</i>				
Stock of Stationery	150		200	
Stock of Printed Materials	200		275	
Sundry Debtors and Prepaid Expenses	77,295		67,761	
	<u>77,645</u>		<u>68,236</u>	
<b>CURRENT LIABILITIES</b>				
Sundry Creditors and Accrued Expenses	68,045		64,427	
Bank Overdraft	4,217		(13,057)	
	<u>72,262</u>		<u>51,370</u>	
<b>NET CURRENT ASSETS</b>		<u>5,383</u>		<u>16,866</u>
<b>TOTAL NET ASSETS</b>		<u>9,251</u>		<u>20,734</u>
<i>Represented By:</i>				
<i>Accumulated Fund</i>				
Balance as at 31st December 1985		20,734		36,035
Deduct: Excess of Expenditure over Income for the Year		(2,280)		(6,366)
		<u>18,454</u>		<u>29,669</u>
<i>Less: Economic and Social Studies   Account Amount Written Off   for the Year</i>		9,203		8,935
<i>Balance as at 31st December 1986</i>		<u>9,251</u>		<u>20,734</u>

The attached Notes numbered 1 to 4 form an integral part of these Accounts and should be read in conjunction therewith.

Signed: Eugene McCarthy } *Members of Council*  
Patrick Lynch }  
J. Roughan } *Secretary*

**THE ECONOMIC AND SOCIAL RESEARCH INSTITUTE**  
4 Burlington Road, Dublin 4

**NOTES TO AND FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED**  
**31st DECEMBER 1986**

1. *Accounting Policies and Convention*

(a) *Basis of Accounts*

The Accounts have been prepared under the Historical Cost Convention.

(b) *Depreciation*

(i) Assets acquired prior to 31st December 1974 have now been fully depreciated leaving the following residual values.

	£
Furniture, Fittings and Equipment	3,472
Library Books	396

(ii) Assets acquired since 31st December 1974 are depreciated at 100% per annum.

2. *Debtors and Prepaid Expenses*

This amount is comprised of:

	£
Grants for Projects	60,573
Other Debtors and Prepaid Expenses	16,722
	77,295

3. *Creditors and Accrued Expenses*

PAYE and PRSI for December 1986

Other Creditors and Accrued Expenses

	35,806
	32,239
	68,045

4. *Taxation*

The Company is exempted from liability to Corporation Tax under Section II(b) of the Corporation Tax Act 1975.

**STATEMENT OF SOURCE AND APPLICATION OF FUNDS FOR THE YEAR ENDED**  
**31st DECEMBER 1986**

	1986		1985	
	£	£	£	£
<i>Source of Funds</i>				
Deficit for the Year		(2,280)		(6,366)
Adjustment for Items not Involving the Movement of Funds:				
Depreciation		8,884		9,030
<i>Total Generated from Operations</i>		6,604		2,664
<i>Application of Funds</i>				
Purchase of Fixed Assets	8,884		9,030	
Economic and Social Studies	9,203	18,087	8,935	17,965
		(11,483)		(15,301)
<i>Increase/(Decrease) in Working Capital</i>				
Stocks		(125)		(15)
Debtors		9,534		(99,324)
Creditors		(3,618)		10,720
<i>Movement in Net Liquid Funds:</i>				
Bank		(17,274)		73,318
		(11,483)		(15,301)

REPORT OF THE AUDITORS TO THE MEMBERS OF THE ECONOMIC  
AND SOCIAL RESEARCH INSTITUTE

We have examined the annexed Balance Sheet and Income and Expenditure Account of the Company and have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit.

In our opinion proper books of account have been kept by the Company, so far as appears from our examination of those books and the Balance Sheet and Income and Expenditure Account *are in agreement with those books of account.*

In our opinion and to the best of our information and according to the explanations given to us, the accounts give the information required by the Companies Acts, 1963 to 1983, in the manner so required, and the Balance Sheet and Income and Expenditure Account, respectively, give a true and fair view of the state of the Company's affairs as at 31st December 1986 and of the Excess of Expenditure over Income for the year ended on that date.

*16 May, 1987*  
*Dublin 2.*

Bastow Charleton & Co.,  
*Chartered Accountants.*

