

CRIC

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THE UNIVERSITY
of MANCHESTER



CRIC Annual Report 2002

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Director's Introduction & Overview of the Year

Preamble

CRIC is an ESRC research centre, created in October 1996 as a joint venture between staff in Manchester University and UMIST. Manchester holds the primary contract with ESRC and a separate sub-contract exists between Manchester and UMIST. Of the original 8 'core funded' research posts, 5 were designated as Manchester employees and 3 designated as UMIST employees. This continues to be the case. In recent years there has been an average of around 6 other research fellows in CRIC on other project funding. There are currently five Directors who are all full time HEFCE funded staff of the host institutions. Consequently, CRIC has a total of about 20 people routinely working from its offices in the Harold Hankins Building. During the Spring and Summer of 2001, the ESRC's mid term review of CRIC was completed satisfactorily. Accordingly when the first 5-year, £2 million, tranche of core funding contract concluded in September 2001, it was immediately followed by a new 5-year contract for £2.25 million to run until September 2006.

1. Introduction

This report covers the year to October 31st 2002, it is the first full report of activities since the completion of the Mid-Term Review and the commencement of the new contract for the period to September 2006. It is also the first annual report of my second period as Executive Director, which commenced in January 2002. The Review was a taxing but rewarding and fair exercise and we are now deeply engaged in the second stage of our work. It has been an exciting period in CRIC's continuing development and I record here our collective appreciation of the leadership of Professor Coombs who guided CRIC through the Mid- Term Review to such good effect. Before reporting in detail on our research activities I begin with a brief review of the year in CRIC.

2. The Advisory Committee

Sir Robin Nicholson, the first chairman of the Advisory Committee ended his term of office in December 2000. Sir Robin was unflinching in his commitment to the success of CRIC and I record here our very great appreciation of his wise council and guidance for the first five years of the research programme. We have been very fortunate to engage Professor Ron Amann as the new chairman of the Advisory Committee; Professor Amann brings a wealth of experience of Research Councils and Whitehall to our deliberations as well as a distinguished record as a political scientist. The Advisory committee has met on three occasions since the new contractual agreements came into force.

Several other changes have taken place in the Membership of the Committee in the past year. Professor William Walker resigned with effect from March 2002, and it is appropriate to record our appreciation of his very considerable contribution from the very earliest days of CRIC. Professor Walker is a very distinguished political scientist, one of the few political scientists with a deep interest in matters related to innovation, and he will be missed. Following extensive discussion, the

Advisory Committee agreed to widen the net of potential members with a view to engaging more closely with leading European research centres in our fields of research. To this effect, we have invited Professor Franco Malerba and Professor Maureen McKelvey to join the committee with effect from January 2003. Professor Malerba is a distinguished economist at Bocconi University in Milan and he is also Director of CESPRI, one of the leading European research centres in the field of innovation studies. Similarly Professor McKelvey, from Chalmers University in Gothenburg, is one of the leading members of the innovation research community with special interests in relation to biotechnology. We are delighted to have them with us at this important stage in CRIC's ongoing development. The Advisory Committee has it in mind to invite other leading European scholars and practitioners, particularly in relation to the sociological dimensions of our programme.

New arrangements have been put in place for liaison with the ESRC Research Priorities Board. The ESRC no longer sends a representative to the Advisory Board meetings. Instead, Professor Metcalfe is to meet with Professor Sandra Dawson, the ESRC 'nominated Board member', and Dr Quraishi at appropriate intervals during the year. Professor Dawson and Dr Quraishi also receive the Director's Reports to the CRIC Advisory Committee.

3. The Directors of CRIC and the Administration of the Centre

During the course of this reporting period, and following a period of three years as CRIC's Executive Director, Professor Rod Coombs has been appointed a Pro Vice Chancellor at UMIST with special responsibility for external affairs. Professor Coombs continues to play an important role in developing the CRIC research agenda although, with the agreement of the ESRC, his formal involvement has been reduced from 80% to 50% of his time. To further strengthen the Directorate, I am pleased to report that Professor Jeremy Howells will allocate 50% of his time as a Director of CRIC. Professor Howells, a Director of PREST, is fully funded by HEFCE.

The Directors of CRIC play a very full part in the research programme and I place here, my deep appreciation of their continued support and vital contribution to our work.

Sharon Hammond continues as the Centre Administrator, and is ably supported by Joyce Wilson, Angie Lewis, Sharon Dalton and Ishtiaq Hussain, the Centre web manager. I am grateful to them all for their contribution to the work of CRIC but especial thanks are once again due to Sharon Hammond who remains instrumental to the continued operation of the Centre and who played the pivotal role in the design, furnishing and successful occupation of our new offices.

4. Staff Changes.

Several developments have taken place over the reporting period. First, I am delighted to report that Dr Bruce Tether and Dr Mark Tomlinson have been promoted to the Senior Research Fellow grade. This is a stiff test in both universities and it is a very good reflection on their qualities that they have been successful at the first attempt. Their promotions are very gratifying. CRIC is committed to provide career paths for researchers whose duration and promotion opportunities are compatible with the Concordat policies of the Research Councils.

Secondly, we welcome five new, full-time members of staff. Dr Florence Bergaud Blackler and Dr Corinne Wales started work in April on the Trust in Food Project. We are also pleased to welcome Sally Gee, Elvira Ulyarra and Karenza Moore who have joined us as Research Associates. Sally is working with Drs Harvey and McMeekin on an ESRC funded project on the development of Bioinformatics. Elvira is working with Professor Jeremy Howells and Dr Bruce Tether on a

European Commission project on Innovation in Services. Karenza us working with Dr Jason Rutter again on a European Commission project on the Mobile Game Industry. Finally, Dr Yuichiro Uchida has been appointed for two days per week to work under the joint supervision of Professors Metcalfe and Cook on a project linking together the work of CRIC with that of the Centre for Regulation and Competition, which is funded by DFID. In September 2002 we welcomed three new Marie Curie fellows for periods from six to nine months. These are Pier Paolo Patrucco (Turin), Blandina Oliviera (Lisbon) and Gilles Pariente (Toulouse). It is normally the case that the Fellows are working on Ph.D topics that overlap with the CRIC programme.

Thirdly, several colleagues have left CRIC. Dr Gindo Tampubolon who had been with us since the first phase of the CRIC programme has moved to a new post in Manchester Computing. Dr Nathalie Moncel, who has been in CRIC for a year as a Marie Curie Fellow, has moved to another Marie Curie Fellowship at UMIST. Renato Reondi also completed his term as Marie Curie fellow in December 2001. We thank them for their contribution to CRIC and wish them every success in their future careers.

5. The Research Assessment Exercise

I am pleased to report that all CRIC staff, including the Directors, were returned in 5 or 5* Units of Assessment in the recent RAE, the outcome of which was announced in December 2001. This outcome does not bring any additional resource to CRIC, but it is one further test of the standing of our work. It is particularly pleasing to note that 'the growing international reputation of CRIC', was cited by the Management Panel as one element of its justification of the grade 5 awarded to Manchester Business School.

6. New Accommodation for CRIC

In the documentation for the Mid-Term Review, we reported on CRIC's success in bidding jointly for JIF funding with our fellow institutes PREST and CROMTEC. The award of a grant of circa £5.7.m, has enabled the University of Manchester to refurbish and convert into high quality office space a former hall of residence adjacent to Manchester Business School. The work was completed in August 2002 and CRIC moved into the new offices shortly afterwards, where it is co-located with PREST and CROMTEC. The three research groups now co-ordinate some of their activities, eg., seminar programmes, under the umbrella of the Institute of Innovation Research. We are very fortunate to have the use of such excellent accommodation, which include a large conference suite with state of the art audio and video facilities. The University has decided to name the new building the 'Harold Hankins Building' in recognition of the work of a recent past Principal of UMIST. Professor Hankins has been a strong supporter of CRIC from its inception and of the collaboration it required between the University of Manchester and UMIST. It is very fitting that the building should carry his name. I can also report that David, Lord Sainsbury, the current Science Minister, has agreed to open the Institute of Innovation Research on 7th April 2003. The opening ceremony and celebratory dinner will be followed by a two-day international conference on innovation research.

The whole process of placing CRIC in good temporary accommodation between March 2001 and September 2002, whilst the new building was completed on schedule, enabled CRIC's programme to continue with minimal disruption. We are grateful to the Department of Estates and Services at the University of Manchester for the very efficient way that these changes have been managed.

7. Arrangements Between The University of Manchester and UMIST

The proposals to bring together the two Universities in a new, single institution have been widely reported in the press. CRIC welcomes this development and looks forward to working in the new arrangements. From the outset CRIC has been an Institute of both Universities and has benefited greatly from this. We are confident that the new arrangements will expand the opportunities for CRIC staff to extend their collaboration with other faculty members and provide new career opportunities for the future.

The joint administration of CRIC in relation to the host Universities continues to be handled successfully by the Liaison Committee. The Liaison Committee last met in April 2002, when the principal item on the agenda was the sharing of overheads on the new tranche of core funding between CRIC and the universities. Broadly satisfactory arrangements have been reached, and I am confident that CRIC will have sufficient resource to mount its planned quota of workshops and other meetings for the next few years. I also record here our appreciation of the continued support provided by the Dean of the Faculty of Social Studies and Law to whom the Executive Director of CRIC is responsible in the University of Manchester.

8. Publication and Dissemination Strategies

The details of CRIC's published output are provided in detail in the Performance Indicator section. In summary CRIC staff and associates to the programme have published over the present reporting period (previous year in brackets) 2 books (6), 22 papers in refereed journals (15) 16 chapters in books (34) and presented papers at 53 conferences and workshops outside of CRIC (21).

Here I draw attention to an agreement reached with Manchester University Press to publish the proceedings of the international workshops organised by CRIC as a central part of its research programme. The General Editor of this series is Dr Mark Harvey. At the time of writing, two volumes have been published, Innovation by Demand, and Market Relations and the Competitive Process, and three more are in preparation. The agreement with MUP has one further very important dimension. Not only will the books be available in hardback, essentially for the University library market, they will also be accessible on the MUP website in the form of non-printable pdf files. Once MUP has met its sales targets the material will be freely available on the CRIC website in the form of printable files. Our intention here is to maximise the distribution of the results of CRIC work, particularly in regard to access by scholars and others in less developed countries. This is the first time that MUP has agreed to use the web in this way and we will monitor this experiment with interest. We see this venture as an important way to build on the success of CRIC's e-papers, which to date have recorded circa 9000 downloading events in approximately two and one half years. We encourage visitors to the website to provide questionnaire feedback on the quality and relevance of our work and the results of the first batch of replies are currently being interpreted.

9. Ph.D Students

Professor Jeremy Howells has assumed responsibility for the organisation of the CRIC Ph.D programme. CRIC has recently bid for two ESRC studentships from a tranche that has been allocated to research centres. CRIC's first Ph.D student Ivan Hernandez passed his oral examination on 25th February. His thesis is entitled, Economics of Innovation in Less Developed Countries: A

Case Study of Colombian Manufacturing Industry. Ivan is now a University Lecturer in Columbia. We are delighted at his success and wish him well for the future.

CRIC currently has three Ph.D students. Tyler Chamberlain, “Competing in Technologically Intensive Industries: International Trade Policy and Corporate Strategy”, Andrea Mina “The Diffusion of Wireless Communication Technologies”, and Davide Consoli “Issues on Service Innovation: The Italian Case a Comparative Perspective”. Davide Consoli was successful in his bid for an ESRC studentship in September 2001. An expansion in the number of students will be a priority for the immediate future.

10. CRIC Workshop and Conference Programme

International workshops play a central role in the development of CRIC’s research agenda. They are a means to put our work before the critical scrutiny of leading practitioners, and they provide a channel through which our own work can be influenced by the parallel efforts of other scholars. In the past year we have held 3 workshops of this nature as follows:

Internationalisation, Technology and Services: Analysis of its Determinants and Implications for Competitiveness, October 2001, organised by Professor Miles and Dr Miozzo.

Theoretical Approaches to Food Quality, January 2002, organised by Professor Warde and Drs Harvey and McMeekin.

Polanyian Perspectives on Instituted Economic Processes, Development and Transformation, October 2002, organised by Dr Ramlogan

Each of these workshops attracted participants from North America and Europe and the proceedings will be published by Manchester University Press, under the arrangements outlined above. Details of the papers and participants are provided in Section 3.3.

In addition to these meetings we organised four international conferences in this reporting period as follows.

Playing with the Future: Developments and Directions in Computer Gaming, April 2002, organised by Dr Rutter. This conference attracted over 80 participants including several from the international industry. Sony provided part sponsorship.

Organisational and Technological Transformations in Complex Adaptive Systems: Methods of Analysis and Measurement, July 2002, organised by Professor Metcalfe and Dr Ramlogan. This was the second conference in the Brisbane Club series.

Services and Innovation: The 12th Conference of the European Network of Economic and Spatial Service Research, September 2002, organised by Professor Miles

All of the above conferences were organised by CRIC in Manchester. The final conference was held in Rio de Janeiro and was a joint venture between CRIC and the Dept of Economics at the University of Rio.

Frontiers and Trends of Development: Technology, Research and Policy, September 2002, organised by Dr De Graca Fonseca (CRIC Associate Fellow) and Professor Metcalfe with the support of the British Council and FINEP of Brazil.

11. International Collaboration

Many of our activities involve international collaboration of one form or another. CRIC staff network extensively at the international level and present papers at overseas meetings on a regular basis. However, there are several other forms of collaboration that are more formal in nature and entail ongoing commitments. The following list covers some recent examples.

- a. CRIC is a lead partner in the development of a new European network around the theme of Economic and Social Transformation in Europe. Among the many co-partners are research groups from, Germany, Italy, France and Sweden. Meetings have been held in Manchester and Gothenburg and the first workshop of the group was held in Jena at the end of February 2002. This group will form the core for a funding bid under the Framework 6 programme for the call anticipated in December 2003. This group was created, as a result of ESRC funding made available in January 2000.
- b. The recently awarded ESRC grant under the IHT programme, for which Professor Metcalfe is the principal investigator, will involve collaboration with Professor Dick Nelson at Columbia University and Professor Fabio Pammolli at Siena University.
- c. Dr Harvey is leading an initiative to establish a collaborative agreement with GEOPI at the University of Campinas in Brazil, for an on-going research and doctoral training collaboration.
- d. The recently awarded EC grant, for the Trust in Food programme, directed by Professor Warde, has a number of partners from Germany, Portugal, Italy, Norway, Denmark, and Russia.
- e. Dr Rutter is the CRIC partner in the recently formed EU programme on Mobile Entertainment and the Gaming Industry.
- f. CRIC is the lead partner in a large-scale study of Service Innovation across the European Union, Canada and the United States, funded by the EU. The co-partners are research teams from France, Germany, Italy and the United States. The first meeting was held in Manchester in September 2002.
- g. CRIC has taken the lead in developing a new European Network ETE (Economic Transformation in Europe) with a view to generating a Framework-Six research programme. Other partners are from Sweden, Germany, France, Italy and Denmark.

12. New Grants and Contracts

Although the great majority of CRIC research is funded from the core grant, CRIC researchers have strong incentives to acquire additional resources to complement their research strategies. In this reporting period the following additional grants have been raised:

ESRC Innovative Health Technologies Grant commencing 1st April 2002 with a duration of three years. Project title: Distributed Innovation Processes and the Uneven Growth of Medical Knowledge. Professor J S Metcalfe leads this work. (£183662.00)

Dr Jason Rutter has contributed to a successful bid for EU funding for a project entitled “Mobile Gaming Industry and Culture (MGain)”. (£102673) A Researcher, Karenza Moore has been appointed.

Dr Mark Harvey is a partner a successful bid for EU funding to continue the network on “Employees Resources and Social Rights in Europe (RESORE)”. (72,600 Euro)

An EU grant on ‘Trust in Food’. Two researchers appointed: Corinne Wales, and Florence Bergaud-Blackler (£204348)

An EU grant for further empirical work on Innovation in Knowledge Intensive Service Firms. European Commission Grant, Project title: Innovation in the Services Sector: Trends and Issues at Stake. Professor J Howells and Dr Bruce Tether lead this work, a Researcher has been appointed, Elvira Uyarra (£121017)

A collaborative programme of work with the Institute for Development Policy and Management (Manchester University) arising from their receipt of a large grant from DFID. CRIC will receive funds equivalent to half a research post and will carry out collaborative work on innovation and economic development issues over a five year horizon. This work is under the direction of Professor Metcalfe. (£30,000)

Dr Dale Southerton has been awarded an ESRC grant on Sustainable Domestic Technology: Changing Practice, Technology and Convention. A new Researcher has been appointed to begin work in January 2003. (£117204.00)

Professor Jeremy Howells has an ESRC grant, in collaboration with CERAM, an international research and technology organisation, working in the field of ceramics, to study and formulate research commercialisation strategies for CERAM and other independent research and technology organisations.

Taken all together these projects suggest that the overall level of additional project funding in CRIC will be likely to continue at historic levels. (As a guideline; during the first five years research income was approx £1million on top of the £2million core funding)

13. User Engagement and the Wider Contribution of CRIC

CRIC continues to be engaged with industry and the innovation policy community as a normal part of its day-to-day activity. Among the main examples of this work are the following:

Professors Coombs and Georghiou are conducting a joint CRIC / PREST project on “Changes in Corporate Research Strategies and Implications for Public Policy”. The origins of this project lie in work done for the Technology Strategy Forum – a private association of R&D and technology management executives from major companies based in the UK. The DTI is funding a second stage of this research, extending the results to companies in Europe, Japan and other South-East Asian economies. This work has also come to the attention of the OECD and, as a result, additional work

has been commissioned by the South Korean government (A report drawing on some of this research has appeared in an article published in "Science", April, 2002).

Professor Coombs, Gindo Tampubolon and Ian Miles have recently completed a project for BNFL on 'Technological and Socio-economic Factors affecting Nuclear De-commissioning'.

Professor Coombs and Professor Miles have organised and conducted a workshop for senior Rolls Royce managers on their future technology strategy.

Dr Mark Harvey has recently had a significant public impact through his work on the economic sociology of employment practice and tax avoidance in the building industry. His recent report stimulated a debate in Parliament, and interviews for the BBC and Danish Radio. His analysis and recommendations have been accepted by the Construction Confederation, and by the Construction Industry Training Board and are contributing to new tax legislation being drawn up by the Inland Revenue.

Professor Howells is working with CERAM and other members of AIRTO (The Association of Independent Research and Technology Organisations) to study the commercialisation practices for research in intellectual property.

Professor Coombs is currently engaged with ESRC in the planning of a workshop for Dr John Taylor, the Director General of the Research Councils on recent developments in the international organisation of company R&D.

Professor Metcalfe was a member of the panel appointed by VSNU (The Association of the Universities in the Netherlands) to evaluate the quality of the research in the field of economics carried out in the Dutch University system. He is currently advising the Volkswagen Foundation on their innovation research programme.

Summary and Forward Look

Further details of CRIC's activity over the reporting period are presented below. I hope I have conveyed, if only imperfectly, our genuine sense of excitement and commitment to this work, which, in greater part, reflects the benefits of the ESRC's long term support and the manifest advantages of the group's location on a single site. To all the CRIC staff I remain profoundly grateful for their many and varied contributions over the year.

CRIC has reached a very important stage in its development. On the one hand the programme has established a clear sense of commitment, purpose and delivery, on the other hand, the imminent reduction in core funding agreed and planned for in the mid term review presents its own challenges for the continuity of the programme. CRIC will bid for a further, exceptional third tranche of core funding because we believe that the coherence of the still developing research programme justifies such a bid. We anticipate that the management of the research programme in the next few years will present some interesting challenges, which we have already begun to address. It is an interesting question for the Research Priorities Board as to how best to manage exit arrangements from ESRC funding jointly with the continuation of a viable programme of basic research. We are sure there is scope for Research Centre Directors of more advanced years (!) to share views on these issues.

The Long-Term Research Framework of CRIC

The future research programme, as agreed in the mid-term review, was structured around six long-term themes. We are making substantial progress in meeting these objectives and in continuing to develop the research programme. A strong transdisciplinary core of work is emerging that brings together insights from economics, sociology and management as we originally intended when CRIC was conceived. The themes are outlined below together with a commentary on progress to date. We have found it convenient to separate the six themes such that the first three deal with horizontal, integrating conceptual issues while themes four to six have specific empirical foci which address all cross cutting themes. The additional non-core funding typically adds to the content of themes four to six. It is to some degree arbitrary where a project is assigned in any one year depending on the balance of conceptual and empirical progress, and this should be borne in mind in judging the relative contributions of projects one to three and four to six.

We have chosen to work in ICT and Biotechnology because they are fields in which the rates of innovation are amongst the highest in the economy, their potential long term significance for the UK is enormous, and they exhibit some of the most novel modes of innovation in the economy. This latter point is important given our conceptual focus on changing modes of distributedness in innovation, and in the relationships to competition and consumption. We are also developing similar research probes in relation to medical innovation (e.g. innovation in relation to the delivery of ophthalmic services), environmental innovation and innovation in respect of the food industry and the computer games industry.

Theme 1: Distributed Innovation Processes (lead Directors, Coombs, Metcalfe, Miles)

We continue to explore the consequences of conceptualising and analysing innovation as a process, which is intrinsically ‘distributed’ across several co-ordinated contributing organisations, rather than contained within one organisation. Of course it is not in itself new to describe innovation in this way. In recent years many authors have provided a wealth of empirical and theoretical accounts of innovations in which the critical element in the story has been the way that several firms and other actors have all had to make necessary contributions in order for particular innovations to be realised. We characterised the principal *theoretical* issues and problems, which need attention if we are to improve on current perspectives and develop a more theoretically integrated model of distributed innovation as follows.

- The first issue is the *mechanism(s) through which economic co-ordination is achieved* between the various firms and organisations who participate in distributed innovation.
- The second issue is the need *clearly to disentangle, at least analytically, three discrete categories of activity, which* are the object of economic co-ordination within distributed innovation systems. These are *first*, co-ordination amongst members of a distributed system to achieve the creation of one specific innovation; *secondly*, co-ordination which takes the form of individual members of a distributed system introducing innovations in their own direct outputs, which then require, trigger or ‘induce’ innovations in the outputs or activities of the other members of the distributed system. *Thirdly*, there is the economic co-ordination, which is required to achieve regularised *production and distribution of* (as opposed to innovation in) the

various goods and services produced by the member firms in the system and by the system as a whole.

- The third issue concerns *incentives and rewards*. The establishment and operation of distributed innovation systems has been largely analysed to date in terms of the difficulties of assembling the inputs to innovation; the attractions of reducing risk and uncertainty by creating stable networks; the economies resulting from agglomeration; the shaping forces arising from national contexts and so on. These approaches *assume* or suggest that distributed innovation systems can enjoy competitive advantage with respect to other firms, or groups of firms, who might be wishing to compete in the same product markets. However, there has been no detailed treatment of these issues.

These three issues (or sets of issues) might be referred to for shorthand purposes as the system *co-ordination* problem; the system *scope* problem; and the *competitive dynamics* problem. It is our intention in this work use a combination of conceptual development *and* empirical work (see sections on biotechnology and e-commerce below) in order to make substantial progress on these problems.

Progress to date.

In the past year we have devoted considerable attention to these issues, developing an instituted economic process framework for our analysis and devoting considerable attention to the application of these ideas to biogenetics and bio informatics. (Harvey, McMeekin and Gee). Our ideas now move beyond the simple idea of embeddedness, to a thoroughgoing examination of the dynamics of the emergence and organisation of distributed innovation processes. The initial results of this work are shortly to appear in several journals and conference proceedings. Some of the preliminary ideas have been explored in the context of merger activities of firms and on this topic we prepared a special issue of TASM in September 2002 under the guest editorship of Dr Randles. A new strand of this work is being pursued in relation to the ESRC's Innovative Health Technologies programme, where we are carrying out comparative work on the development of distributed innovation systems in cardiology and ophthalmology. (McMeekin, Ramlogan, James and Metcalfe). This builds upon our re-conceptualisation of the dynamics of the formation of distributed innovation processes developed in our previous work on intra-ocular lenses. This work is also integrated into an international programme of research on the uneven growth of medical knowledge, under the direction of Professor Richard Nelson at Columbia University. The policy significance of this work is also receiving attention, and here we have become increasingly critical of national and indeed sectoral innovation systems as organising frameworks for policy makers. We are already committed to disseminate some of these ideas to international policy conferences in November 2002. Our forthcoming work on innovation in airports (Tether and Metcalfe) also applies these ideas to an important and little researched service sector and provides a framework that can be applied to other cases.

Theme 2: Knowledge, Complexity and Competition (lead Directors Coombs, Metcalfe)

This theme is devoted to deepening our understanding of the relations between the growth of knowledge, innovation and the competitive process in modern capitalism, and in the process to develop a range of conceptual and empirical models that throw light on these complex relationships. In this work our approach is based upon an analysis of competition which links closely with the two other CRIC themes, distributed innovation processes and market institutions and the formation of

demand. DIPs shape the pattern of innovation and competitive performance and competitive processes shape the institution of DIPs. In particular, the fact that innovation is carried out in distributed fashion through networks of interacting firms and organizations in services and manufacturing, and that the relationship between suppliers and users is crucial to the innovation process, jointly mean that innovation networks closely interpenetrate with market networks and co-evolve with those market networks. We have made extensive use of the ideas developed in the field of evolutionary economics and related approaches to the study of innovation dynamics. From this emerging perspective we have developed a challenging conceptual programme of work to interact with the empirical parts of our programme. Our aim here is to develop a genuine economic sociology of the dynamics of modern knowledge based economies. The main elements of this are defined in terms of the following strands.

- Contrasting Economic, Sociological and Managerial Perspectives on the Competitive Process.
- Complexity and Competition: Strengths and Limitations of an Adaptive Evolutionary Approach.
- Competition and the Growth of Knowledge.

Progress to Date.

This has proved to be a rich field in which to work. We have begun to build on earlier CRIC work on the nature of knowledge and knowledge based organisations to develop a critical account of the processes of new knowledge generation in DIPs. The ICC paper by Metcalfe (2001) is one of our outputs in this area and it is being followed by further work on the received wisdom on the distinction between codified and tacit knowledge (Metcalfe and Howells). The links between CRIC and the ESRC Nexus programme co-ordinated by Professor Peter Allen at Cranfield University have been a considerable stimulus to our work. In this regard, and following on the preliminary ideas sketched in Fonseca, Ramlogan and Metcalfe (2002), we have proceeded to construct a number of models of evolutionary competitive dynamics (Currie and Metcalfe, Smith Burton and Metcalfe) and to develop explicit simulation strategies to explore the dynamic properties of these processes. A recently examined PhD thesis by Tom Brown, a physics student at Manchester, explores these simulation processes in some analytical depth. A related strand of this work has been to explore the idea of growth and competition as self-organising processes in which economic variables like productivity growth are emergent phenomena. This research has the important property that it connects with a large body of work carried out on economic growth in the 1930's before the Keynesian revolution took growth theory in a (mistaken!) direction. Several papers by Ramlogan and Metcalfe will appear on this theme some aspects of which are under collaborative development with Professor John Foster and his team at the University of Queensland. At this stage we have in place several elements in a framework for the analysis of Restless Capitalism, in which the connections between innovation, competition and growth are made transparent. This framework privileges the role of markets in shaping economically emergent phenomena and thus enables the connections to be drawn with our wider analysis in CRIC of instituted economic processes. It is also providing new perspectives on the role and justification for public policy in support of science and technology, which we expect to be able to report more fully on next year.

This reporting period also saw the start of a new project by Coombs and Metcalfe on the different conceptions of competition held within the corporate and business levels of firms. In this project we contrast the different views of competition in managerial and social science literatures, and although this work is in its preliminary empirical stages, we expect to be able to report more fully on it next year. During the year Tether and Swann have also begun their work on competition in airport landing slots.

The award by DFID of a major grant to the Institute of Development Policy and Management at Manchester University has enabled the CRIC portfolio to extend to the analysis of innovation competition and growth in developing economies. Ramlogan and Metcalfe are engaged in this work, which promises to greatly enrich our understanding and to extend the research communities to which CRIC work is disseminated. Papers have been written on competition and technology policy in developing economy contexts and on the growth dynamics of innovation based industries, which complement and extend the core CRIC programme.

Theme 3: Consumption and Innovation (lead Directors, Warde, Miles)

The principal aim of this long term theme is to develop a theoretical and substantive account of the relationship between social and economic change and patterns of consumption and demand. Among its key objectives are:

- to consolidate and refine a conceptual framework for understanding the relationship between production and consumption, that places particular emphasis on the logic of the different social practices that consumers engage in and the significance of time and temporalities in the consumption process.
- to explore and evaluate the role of different techniques for predicting demand and for formulating new ways to sell products to final consumers in the process of forming innovation strategies.
- to develop a substantive account of the relationship between social trends and patterns of consumption and demand, which is historical, which identifies the routine element of consumption practices, which relates to the impact of changes in work on consumption and everyday life, and which deals simultaneously with the formal and informal economies.
- to evaluate competing explanations of taste and preferences in the economic, sociological and managerial literatures, with particular reference to the effects of differential resources (especially social capital) and trust and mistrust on the consumption of innovative products. We propose to make use of a network analysis perspective.

Progress to Date

A tranche of papers were published on these topics over the last twelve months and several new projects have been commissioned by the ESRC, which should consolidate progress towards meeting these objectives. Work continues on developing a conceptual framework for the analysis of consumption. Following completion of a theoretical position paper in 2001, recent work has been based on exploring the notion of practice. Southerton and Tomlinson presented an important paper in Lisbon analysing time use involved in consumption. This has led to preparation of a research project, formulated in terms of a theory of practice, comparing time use and household expenditure, which is designed to account for the variations in the historical development of consumer culture in five countries since the 1970s. We have delivered many papers worldwide developing and promoting the case for the importance of consumption in an understanding of innovation. The publication of *Innovation by Demand* (McMeekin, Green, Tomlinson and Walsh) lays down a marker, and Howells' keynote speech to the RESER conference in Manchester elaborated the position further. Detailed empirical studies of food are examining innovation in relation to state regulation, market processes and consumer behaviour. January's workshop on food quality will

produce a theoretical volume of considerable sophistication regarding innovation strategies in the promotion of food. An internal project on the development of the British market research industry (McMeekin, Randles) is contributing to an understanding of the construction of the consumer and how the methods and techniques of market research are used to increase demand for goods and services. A strong line of investigation on the everyday consumption of technology is underway with Rutter's project on mobile gaming and Southerton's on sustainable consumption in the context of the socio-technological systems contained in bathrooms and kitchens. Our final objective will be addressed by Warde, in a major new project on social inequality and the determination of cultural taste, preference and practice, a collaboration with the Open University. It will conduct a national random sample survey of the British population with a view to explaining the effects of cultural capital and social networks on consumption.

A review is being prepared of some of the major strands of innovation research that bear upon consumption issues. These include, for example, the literatures on: 1 – creation of markets for new products (which relates to work on topics such as Rutter's on digital gaming, and Metcalfe and Ramlogan's on the role of demand in innovation led growth); 2 – marketing strategy in terms of the understanding of consumption practices and structures, its sources and knowledge bases, and the feeding back of this into innovation strategy products (which relates to work on topics such as Randles' study of the marketing industry); 3 - large-scale shifts in consumer practices and the associated movement of demand across different classes of products (e.g. goods versus services, which relates to Miles' work on services economy trends); 4 – user involvement in innovation and public attitudes to innovative developments; etc.

Theme 4: Trajectories of Agro-Food Technology

This 'mini programme' of work is integrated into our three horizontal projects as indicated above. It is strengthening CRIC's capability at the interface of biological and social sciences and it is developing our international research connections in a focused manner. In the last year we have been engaged in a programme of empirical work that has consolidated global comparisons in key areas of agrogenomics and bioinformatics. Research in Brazil and Europe has opened up questions concerning the formation of knowledge markets and processes of distributed innovation that cut across established geographical scales (nation, region) and industrial sectors (computing, ink-jet printers, seed manufacturers). One of the key organisms involved in technologies of genetic modification, and the genomics of sugar cane and plant pathogens have been the focus of detailed case study research. Our research on the genomics and proteomics of yeast has indicated ways in which divisions between agro-industrial and pharmaceutical biotechnologies are challenged by innovation processes, in ways that reconfigure the distributed nature of innovation.

Among the key objectives of this research are:

- to develop a global comparative perspective on distributed innovation processes in agro-food technologies.
- to develop a framework for conceptualising 'economies of knowledge' in terms of flows of knowledge and resources across market and non-market economic spaces as a way of understanding the restructuring of the economy, and of economic dynamics in terms of interactions between private and public domains.
- to contribute to the development of an 'instituted economic process' theoretical framework, and engage with alternative evolutionary perspectives.

Progress to date

This project continues to draw on the work carried out on our three horizontal themes. Research in Brazil in Sao Paolo, Campinas and Rio de Janeiro for a second year has consolidated previous work, and provided the beginnings of longitudinal comparative case studies. Collaborative research agreements with GEOPI at the University of Campinas have established a basis for the continuation of this work over the next three or more years. A paper on globalisation and innovation was produced and presented at the *Frontiers and Trends* conference in Rio de Janeiro in October. A paper on the formation of knowledge markets in bioinformatics has been accepted for the *Revue d'Economie Industrielle*. This work has been complemented by research in Europe and the US, demonstrating the necessity of developing research strategies and methodologies at the global level to address innovation processes in this area. We believe this work is breaking new ground in terms of the understanding of the emergence of an international innovation system in a new technological area. Indeed, there are particularly sharp consequences for the understanding of innovation processes in developing economies, which we expect to explore.

Collaboration with the Manchester bioinformatics community has been developed as part of a longer-term strategy of closer engagement between natural and social scientists, as well as developing our own capabilities in researching the corresponding science and technologies. Our first joint publication with a bioinformatician from the Department of Biotechnology is in press (Bornberg-Bauer, Harvey and McMeekin), concerning the restructuring of biology as a discipline, and its consequences for skill formation and education.

Theme 5: Innovation and Competition in ICTs and the New Economy

Like project 4 this project also cuts across the conceptual themes embodied in projects 1 to 3, with e-commerce being the broad empirical focus. Among the themes we are addressing are:

- The role of E-commerce as a potentially powerful means for facilitating distributed innovation.
- The ways in which different types of electronic marketplace can enhance or limit competition, and the analytical tools that are required to understand these processes – and formulate appropriate recommendations for policy – more clearly.
- The social construction of consumer's trust in electronic environment. "Trust" has many more dimensions and characteristics than appear to be identified in the predominant technical and economic discourse around e-commerce, and we intend to bring a variety of other modes of analysis to bear on examining the interplay between (different forms of) trust and distrust.

Progress to Date

In the past year we have been active in studying the role of knowledge-intensive business services (KIBS) as agents in distributed systems of innovation. In some instances KIBS are transmitters of knowledge between elements of the system, in some they are active in forging new systems and networks of collaborators. Ian Miles is participating on behalf of the DTI in an OECD project on Knowledge-Intensive Service Activities, and is preparing a review of literature on KIBS-client interfaces for the December 2002 meeting of this group. Projects are also underway or about to

begin for the CST on the use of the science base by KIBS (with Bruce Tether and other collaborators in Manchester), and for DG Enterprise on the contribution of KIBS to business performance (with Mark Tomlinson and European collaborators). We have also undertaken studies of the B2B topic with the assistance of a European Commission project jointly carried out with IFO in Germany. In this work, the real challenge is to understand how firms develop and pursue strategies for the creation of electronic markets, and for the mobilisation of suppliers and clients within such markets. Essentially, these are network innovations, and studying single nodes of the network is insufficient

More directly related to ICTs, as traditionally conceived, is the work on bioinformatics (see project 4) and our growing body of work on the computer games industry where we have hosted a major international conference and continue to develop our work on the economics of this emerging sector organised by Dr Rutter. The creation of a new economic sector like computer games enables us to link innovation and competition in a rapidly changing environment in which technology, consumption and company strategy interact to generate rapid shifts in competitive advantage. We have also continued our work on trust in e-markets. In this context, we have been active in developing a richer theoretical account of the development of "information society", which we see as having evolved through a number of phases. E-commerce is typical of the present phase of networked and widespread (but not yet pervasive) computing power. Miles has developed this analysis in a number of book chapters and conference presentations, and argues that the contrasting visions of e-commerce as "completely free market" and as "fenced-off frontier" both fail to capture the dynamics of this very heterogeneous realm. Understanding the distributed innovation processes involved here is a challenging task. A way into this topic that can draw on our existing lines of analysis is to begin with the service industries that aid e-commerce users with strategy formulation, software and web design, and network services.

Theme 6: Understanding the Knowledge Economy

This theme is focused on indicators and metrics for the knowledge economy to more accurately chart its development. Our approach in this work draws on two specific CRIC resources in order to attack a particular type of problem. The two resources are:

- Specific analytical skills of CRIC staff in the areas of statistical analysis and modelling. These skills include: the handling of large data sets; the use of advanced modelling techniques from both the standard statistical packages and also the less-well known packages such as PRINCALS; and the use of more novel and emerging techniques, especially computer analysis of network relationships.
- Access to, and generation of data sources which are uniquely valuable for this type of research.

The individual pieces of work conducted with particular data sources and techniques are valuable in themselves, as has been shown by our previous work. But their cumulative value is that they are allowing CRIC to frame and address a more *generic problem*, which underlies this strand of work. To cite two examples:

- Traditional models of industrial sector (defined in terms either of generic product types or manufacturing processes) are still the primary frame of reference for official data collection and analysis. Yet this does not provide an easy point of entry for analysing *distributed* innovation (or production) processes. Nor does it provide a route into quantifying the analysis of, for example, the notion of 'clusters' which is animating some current policy debates on innovation.

- Services and Manufacturing are still treated as ‘grand sectors’ in statistical presentation of the economy, even though our work and that of many others has shown that these distinctions, *as applied to sectors*, actually obscure more than they reveal.

Progress to Date

CRIC’s work in this field has the long-term ambition of contributing to a debate with official agencies and other academics on new approaches to the conceptual underpinnings of data collection and analysis in modern, knowledge-intensive economic systems. We continue to make progress in our work on the statistical representation of the service sector. The research, which is in collaboration with other international research teams, is seeking to develop new metrics and statistics to better ‘capture’ the process of innovation within service activities. In May 2001 Bruce Tether and Ian Miles submitted a report to the European Commission, which analysed the responses from service sector enterprises to the Second European Community Innovation Surveys (CIS-2). The analysis covered 13 countries and represents one of the first wide scale analyses of innovation in services. The project involved an international network, with partners from Germany (ISI Karlsruhe) and Italy (CNR, Milan), and the final outcome was well received by the Commission. Jeremy Howells and Bruce Tether were subsequently successful in a tender for further work on innovation in services for the European Commission. This study, which is co-ordinated by CRIC, also involves international partners from Germany (ISI Karlsruhe) and Italy (Bocconi University, Milan).

Overall Management of the Programme

Each of the five CRIC Directors takes responsibility for leadership and co-ordination of the work under a specific long- term programme: Coombs for Distributed Innovation; Metcalfe for Competition; Warde for Consumption; Howells for Innovation related data, and Miles for the Re-conceptualisation of Services Innovation. The empirical projects on topics such as biotechnology and e-commerce are conducted by teams of CRIC staff with specific interest and expertise in these areas. The whole CRIC team meets regularly for presentations on work-in-progress in order to both maintain oversight and to draw out the synergies between findings in different fields.

3 Research Project Activity

3.1 Additional Research Project Activity

In this section we list the additional research projects raised during the year as follows:

ESRC Innovative Health Technologies Grant commencing 1st April 2002, with a duration of three years. Project title: Distributed Innovation Processes and the Uneven Growth of Medical Knowledge. Professor J S Metcalfe leads this work.(£183662)

Dr Jason Rutter participates in an EU funded project entitled “Mobile Gaming Industry and Culture (mGain)”. (£102673) A Researcher, Karenza Moore has been appointed.

Dr Mark Harvey is a partner a successful bid for EU funding to continue the network on “Employees Resources and Social Rights in Europe (RESORE)”. (72,600 Euro)

An EU funded project (£204,348, in collaboration with Sociology Department) on ‘Trust in Food’. Two researchers have been appointed: Corinne Wales, and Florence Bergaud-Blackler and the project is lead by Professor Warde.

An EU grant for further empirical work on Innovation in Knowledge Intensive Service Firms. Project title: Innovation in the Services Sector: Trends and Issues at Stake. Professor J Howells and Dr Bruce Tether lead this work, a Researcher has been appointed, Elvira Uyarra (£121,017)

A collaborative project with the Institute for Development Policy and Management (Manchester University), arising from their receipt of a large grant from DFID. CRIC will receive funds equivalent to half a research post and will carry out collaborative work on innovation and economic development issues over a five-year horizon. This work is under the direction of Professor Metcalfe. (£30,000)

Dr Dale Southerton has been awarded an ESRC grant on Sustainable Domestic Technology: Changing Practice, Technology and Convention. A new Researcher has been appointed to begin work in January 2003. (£117,204)

Professor Jeremy Howells has an ESRC grant, in collaboration with CERAM to study and formulate research commercialisation strategies for CERAM and other independent research and technology organisations. (£21,546)

Dr Bruce Tether and Professor Peter Swann (Manchester Business School) have a joint project, ‘Allocating Airtime’ funded by the Manchester Federal Business School Collaboration Fund (£2,000)

3.2 CRIC International Workshops

In this section we give the details of the various workshops organised by CRIC during the year.

October 2001

Internationalisation, Technology and Services: Analysis of its Determinants and Implications for Competitiveness.

Organised by Ian Miles & Marcela Miozzo

Research on the internationalisation of services and the process of innovation has been limited to date. Also, contributions on innovation in services fail to take into account much of the developments on the internationalisation of services. This presentation presented a research agenda that requires an integration of the two strands of literature.

Principal Contributors:

Ian Miles	-	CRIC – University of Manchester
Marcela Miozzo	-	MSM – University of Manchester
Zbigniew Jimmy	-	United Nations Conference on Trade & Development (UNCTAD) Geneva
Neil Coe	-	School of Geography, University of Manchester
Luis Rubalcaba Bermejo	-	University of Alcala & Servilab, Madrid
David Gago	-	University of Alcala & Servilab, Madrid
Marja Toivonen	-	Employment and Economic Development for Uusimaa, Helsinki, Finland.
Jeremy Howells	-	CRIC – University of Manchester
Joanne Roberts	-	University of Durham
Sally Randles	-	CRIC – University of Manchester
Bruce Tether	-	CRIC – University of Manchester
Paul Baker	-	Netherlands Economic Institute, Rotterdam
Anders Henten	-	Technical University of Denmark
Lyngby Grazia	-	Letto-Gillies Business School, South Bank University

January 2002

Theoretical Approaches to Food Quality.

Organised by Alan Warde, Mark Harvey & Andrew McMeekin

The workshop was part of the CRIC programme on consumption and provides theoretical weight to our developing interests in food. The principal objective was to compare and contrast competing notions of quality in the field of food, with particular reference to consumption practices. Much economic calculation depends upon the distinction between price and quality, but has no insight into the determination of judgements of quality. Quality has many dimensions. In the food, safety, health, sensory taste, status, and regional and ethnic origin are among the valued attributes. Put another way, food has nutritional, political, religious and social class qualities. The workshop explored how these different domains are constructed and disciplined – by the various arms of the state, corporations, religious authorities, tourist boards, consumer movements and self-styled connoisseurs. So, we heard about helal regulations in France, the British Food Standards Agency and its EU counterpart, the Slow Food Movement in Italy and ‘Buy Nothing Day’ in the USA. The means by which quality is defined, contested, validated and guaranteed proved fruitful terrain for contrasting alternative theoretical approaches. Ethnomethodology, symbolic interactionism, which the attribution of ‘quality’ was examined. That commercially valuable imprimatur, ‘quality’, arises from identifiable social processes and institutional routines which are constantly subject to challenge and in need of justification. Contests over food quality provide insight into economic competitiveness and contemporary political controversies.

An edited selection of the papers will be published in a volume in our Manchester University Press series in the Autumn of 2003.

Principal Contributors:

Antoine Hennion	LNRS, Paris
Geneviève Teil	INRA, Paris
Jonathan Murdoch	University of Cardiff
Maria Miele	University of Pisa
Isabelle Techoueyres	University of Bordeaux
Florence Bergeaud Blackler	University of Bordeaux
Roberta Sassatelli	Universities of East Anglia and Bologna
David Barling & Tim Lang	Thames Valley University
Gilles Allaire	INRA, Toulouse, France
Jukka Gronow	Docent University of Helsinki
Gun Roos	SIFO Norway
Mark Harvey	CRIC – Manchester University
Alan Warde	CRIC – Manchester University
Andy McMeekin	CRIC – Manchester University

Titles of Papers Presented:

Antione Hennion & Geneviève Teil, CSI/CNRS & AGER/INRA Paris, France

‘Discovering Quality or Performing Taste? A Sociology of the Amateur’

Johnathan Murdoch & Maria Miele, University of Cardiff/University of Pisa

‘The Aestheticisation of Food: taste, time and typicality’

Isabelle Techoueyres, University of Bordeaux 2, France

‘The quality of “Good” : an anthropological approach of local food productions in the South-West of France.’

Florence Bergeaud Blackler, University of Bordeaux, France

‘Halal’ food in a non Muslim Country.’

Roberta Sassatelli, University of East Anglia

‘Trust, Food and Contestation. From the Buying Nothing Day to Fair Trade Goods.’

David Barling & Tim Lang, Thames Valley University

‘Food Agencies: an effective response to a consumer crisis?’

Gilles Allaire, INRA, Toulouse, France

‘Cognitive Paradigms and Institutional Hybridity in Agrofood Innovation.’

Jukka Gronow, Docent University of Helsinki

‘The (un)predictability of consumption. The asymmetric relation between the producer and the consumer.’

Gun Roos, SIFO, Norway

‘Food quality – where does the consumer come in?’

April 2002

'Playing with the Future' Development and Directions in Computer Gaming Conference

Organised by Jason Rutter and Jo Bryce

Computer games have now been taking up room in people's homes for over twenty-five years. The mid-seventies fad for the black and white block graphics of the tennis game Pong has turned into an industry worth over \$6 billion in the USA alone. In the in the UK, leisure software is worth approximately \$3.5 billion making it the country's biggest entertainment market in front of TV and film. It has been suggested that almost three quarters of people under 30 have played a computer game and half play on a regular basis. It is now not unknown for games to have development costs exceeding £1 million and mainstream advertising for games and product placement within them are increasingly routine.

The overarching aim of this conference is to develop a better understanding of computer games, gaming and gamers at this rapidly moving point in the gaming industry. To this end the conference will bring together researchers from cultural studies, economics, sociology, psychology, computation, management and other disciplines, along with members from various sectors of the gaming industry such as developers, publishers and retail.

By bringing industry and academic expertise together, this conference seeks to help stimulate and concretise the development of that network.

The central aims of the conference were:

- To provide an international forum for the exchange of ideas, information and analysis on the gaming industry and gamer research
- To foster links between academic research and training and the gaming industry in order to develop new networks of research activity
- To offer students engage in gaming research a supportive environment for sharing and developing their idea with more established researchers
- To facilitate dissemination of work produced for the conference in printed and electronic format

Titles of papers presented:

Alberto Alvisi, Alessandrol Narduzzo & Marco Zamarian

Squint-Eyed Strategies for Success: Playstation and the Power of Unexpected Consequences

Julian Barker

An Investigation of Play Studies

Will Brooker

The Many Lives of the Jetman: A Case Study in Video Game Analysis

Andrew Burn

Final Fantasy: Multimodel Competences in Player Engagement

Diane Carr

Play Dead: Planescape Torment, Horror and RPG's

Mia Consalvo

Hot Dates and Fairy-Tale Romances: Studying Sexuality in Videogames

Marinka Copier

Is Gaming Just for Kids? Elderly People do Play Games!

Jon Dovey

Intertextual Tie Ups: When Narratology Met Ludology

Hardy Dreier

Windowing and Versioning: The Power of Combination

Timothy Dumbleton

Becta's Computer Games in Education project: How Can Computer Games Influence New Software for Schools?

Johannes Fromme

Computer Games as a Part of Children's Culture

Seth Giddings

Playing with Theory: The Technological Imaginary and a 'New Media Studies'

Ole Ertlöv Hansen

A Cognitive Theoretical Approach to Computer Games and the Aesthetics of Repetition

Jeroen Jansz

Why is Violent Appealing to Male Gamers?

Jesper Juul

Protect Your Resource Gathering Units At All Cost: Sketching a Theory of Gameplay

Helen Kennedy

Gender, Technicity and Play: Girl Gamers and Online Methodologies

Aphra Kerr

Producing Players Not Games: The Digital Games Industry in Ireland

Jai Kim, Jay Chung & Tae Kim

Foreign Market Entry Strategies of Korean Online Game Developers

Graeme Kirkpatrick

Games and Culture

Friedrich Krotz

Computer Games as a Form of Computer Mediated Communication and the Changing Images of Childhood

Tanya Krzywinska

Constructions of Tension in Horror-Based Videogames

Julian Kücklich

Neverending Stories – Perspectives of Computer Game Philology

Philippe Larrue, William Lazonick & Mary O’Sullivan

European Competitors in the Video Game Industry: Venture Creation and Enterprise Growth in France and Britain

Ho Lee, Eric Kozlowski, Scott Lenker & Sugih Jamin

Synchronization and Cheat-Proofing Protocol for Real-Time Multiplayer Games

Andrew Mactavish

Mods, Gods, and Creative Computer Gameplay

Tony Manninen & Tomi Kujanpää

Interaction Forms in Multi-player Games

Alison McMahan

Consoles versus Content: The Battle at Sega

Dorina Miron, Brian Brantley, Lucian Dinu, Barry Smith & John Chisholm

Effects of Individual/Team Playng and Constructive/Destructive Goal on Players’ Scores on the Game and on Social Desirability, Individualism, and Copying Style Scales

Dorina Miron & Mary Ellen Maxwell

The Impact of Videogame Playing on Children’s Learning of Prosocial Scripts from Edutainment

Anna Mullay

The way we tell ‘em: Children, Narrative and ICT

Simon Egenfeldt-Nielsen

Games and Learning: The Case of the Trojan Horse

Nicolas Nova

Awareness Tools: Lessens fro First-Person Shooter Games

Stina Nylander & Annika Waern

Platform-independent Interaction for Online Game Services

Anja Rau

All Your Game Are Belong to Us – Computer Games and Online-Marketing

Xavier Retaux & Juliette Rouchier

Realism vs Surprise and Coherence: Different Aspect of Playability in Computer Games

Gareth Schott

Moving between the Spectral and Material Plane: Interactivity in Social Play with Computer Games

Piotr Sitarski

Play it Again: Repetitions in Computer Games

Gitte Stald

Meeting the Combat Zone. Online Multiplayer Computer Games as Space for Social and Cultural Encounters

Axel Stockburger

HEAD LEFT – CLIMB UP – JUMP IN: What do Walkthrough texts reveal about representational navigable spaces in computer games?

Susana Pajarees Tosca

Games ARE the New Black

Bo Kampmann Walther

Gaming and Playing: Reflections and Classifications

Markus Wiemker

“Where does reality stop...and the game begin?” – Postmodern media-reality - a sociological analysis of media discourses, cultures of simulations and gaming future exemplified by the film eXistenZ (1998) from David Cronenberg

Pierre Wilhelm

Videogame Ratings and Regulation in the United States

Dmitri Williams

The Social Construction of Video Games

Dmitri Williams

Structure and Competition in the U.S. Home Video Game Industry

Hong-Sik Yu

Effects of Competitive Videogame Playing on Player's Affects and Self-Ascribed Toughness

July 2002

2nd Meeting of the Brisbane Club:

“Organisational and Technological Transformations in Complex Adaptive Systems: Concepts, Methods of Analysis and Measurement”

Organised by Stan Metcalfe, and Ronnie Ramlogan

CRIC sponsored this workshop, which is the second in the series of Brisbane Club workshops. The first was held at the University of Queensland, in July 1999 and the proceedings, "Frontiers of Evolutionary Economics" were published recently by Edward Elgar. In this second workshop we looked at the problem of economic and technological transformation, whether it be at the level of productive activities, firms, instituted market relationships, sectors or indeed if necessary, whole economies. What we mean by economic transformation is a question worth posing and one, which fits naturally within a broad evolutionary agenda in relation to growth competition and innovation, and the instituted foundations of these dynamic processes

The first Brisbane Club workshop took stock of the conceptual foundations of evolutionary analysis. In this workshop we took the argument further by focussing upon questions of method and empirical evidence appropriate to an evolutionary research programme. The unit of analysis is a free variable for these purposes, but the focus on the dynamics of transformation in relation to theory and empirical evidence is not

Papers presented:

Jason Potts – University of Queensland, Australia & Kurt Dopfer – University of St Gallen, Switzerland – Evolutionary foundations of economics

Luigi Orsenigo – Università Bocconi, Italy – Innovation and market structure in the dynamics of the pharmaceutical industry and biotechnology: towards a history friendly model.

Paul Ormeord & Bridget Rosewell – Volterra Consulting UK – On the methodology of assessing agent-based evolutionary models in the social sciences.

Paolo Ramazzotti – University of Macerata, Italy – What do Firms Learn? Production, Distribution and the Division of Labour.

Peter Hall – Australian Defence Force Academy, Australia – Dynamic Capabilities, Tacit Knowledge and Absorption.

Peter Allen – IERC Cranfield Institute of Technology, UK – The Complexity of Structure, Strategy and Decision Making.

Stan Metcalfe & Ronnie Ramlogan – University of Manchester & John Foster – University of Queensland, Australia – On Endogenous Growth: Towards a Theory of Restless Capitalism.

Francesco Louca – ISEG, Portugal – Erring to be right.

Jens Kruger – Jena University, Germany – Technological and Economic Mobility in Large German Manufacturing Firms.

Pier Paolo Saviotti – INRA, France – Economic development, qualitative change and employment creation.

September 2002

12th International Conference of RESER the European Network of Economic and Spatial Service Research'' Services and Innovation: Understanding structures, processes and outcomes of innovation in services and service activities.''

Organised by Ian Miles and Lawrence Green

Principal Contributors

Ms Marianne Abramovici	- Universite de Marne-La-Vallee, Laboratoire OEP/GREGESE
Dr George Aicholzer	- ITA, Austrian Academy of Sciences
Mr Julien Arkell	- Infotelecom, Spain
Dr Pieter Ballon	- TNO, Netherlands
Ms Laurence Bancel-Charensol	-Universite de Marne-La-Vallee, Laboratoire OEP/GREGESE
Mr Joel Bonamy	- GATE-CNRS, France
Marianne Broch	- STEP, Norway
John Bryson	- School of Geography, Earth and Environmental Sciences, University of Birmingham
Ms Francesca Canti	- Gruppoclas, Italy
Professor Giulio Cainelli	- ISPRI-CNR, Italy
Dr Grainne Collins	- ERC, Department of Sociology, Trinity College, Dublin, Ireland
Mr Dirk Czarnitzki	- ZEW, Mannheim, Germany
Mr Bernhard Dachs	- ARCS, Austria
Ms Christine de Gaudemaris	- CCI, ESC Grenoble
Dr Teresa Fernandez Fernandez	- Universidad de Alcala
Mr Jean-Paul Flipo	- EM LYON, France
Dr Marianela Fornerino	- CCI, ESC Grenoble
Dr Karen Fox	- Department of Marketing, Santa Clara University
Ms Marion Frenz	- Management Department, Birkbeck College, London
Mr Lars Fuglsang	- Roskilde University, Denmark
Dr Camal Gallouj	- Universite de Lille 1, Faculte des Sciences Economiques
Dr Faiz Gallouj	- Universite de Lille 1, Faculte des Sciences Economiques
Claudia Girardone	- Middlesex University Business School
Lawrence Green	- PREST, UK
Mr Daood Hamdani	- Statistics Canada
Prof. Jeremy Howells	- PREST/CRIC, UK
Professor Grazia Ietto-Gillies	- South Bank University
Prof Sven Illeris	- Roskilde University, Denmark
Henk L M Kox	- CPB Netherlands Bureau for Economic Policy Analysis
Dr Jari Kuusisto	- Finnish Institute for Enterprise Management
Mr Stephane Laurent	- IKON Research Unit, Warwick Business School, UK
Ms Regina Leiggenger	- Departement de Geographie, Universite de Geneve, Switzerland

Ms Luisa Lopes	- Universidade Nova de Lisboa, Portugal
Dr Marcela Miozzo	- MSM, UMIST, UK
Prof. Ian Miles	- CRIC/PREST, UK
M C Monnoyer	- RESER (President)
Ms Laurence Moyart	- FUCAM, Mons, Belgium
Dorsaf Omrane	- LERASS, Toulouse, France
Mr Gilles Pariente	- Universite de Toulouse 1, LIRHE-CNRS
Dr Matias Ramirez	- Birkbeck College, UK
Dr Sally Randles	- CRIC, UK
Dr Joanne Roberts	- University of Durham Business School UK
Dr Carla Cristina Rodrigues	- Inofor, Portugal
Dr Michael Rothgang	- RWI, Germany
Emma Rue	- BCF Consultors, Spain
Dr Grete Rusten	- Institute for Research in Economics and Business Administration (SNF)
Ms Maria Savona	- ISPRI-CNR, Rome, Italy
Dr Markus Scheuer	- RWI, Germany
Mr Tor Selstad	- Geography and Public Planning, Lillehammer College, Norway
Mr Peter Sjøholt	- Department of Geography, NHH, Bergen, Norway
Dr Metka Stare	- Ljubljana, Slovenia
Miss Ludmila Striukova	- Birkbeck College, UK
Dr Jon Sundbo	- Roskilde University, Denmark
Ms Tiina Tanninen-Ahonen	- National Technology Agency Tekes, Finland
Ms Marja Toivonen	- Economic and Economic Development Centre for Uusimaa Maistraatinportti 2, Helsinki, Finland
Daniel Urrutiaguer	- University, Paris 10
Prof. Alan Warde	- CRIC, UK
James Wickham	- ERC, Department of Sociology, Trinity College, Dublin, Ireland
Dr Paul Windrum	- MMUBS, UK
Dr Michael Wernerheim	- Department of Economics, Memorial University of Newfoundland, Canada

October 2002

The Polanyian Workshop: Polanyian Perspectives on Instituted Economic Processes, Development and Transformation.

Organised by Ronnie Ramlogan

The work of Karl Polanyi, and in particular the idea of an instituted economic process has been of instrumental value in developing the CRIC research agenda and in providing a bridge with the wider community of economic sociology. This workshop, organised with the support of the Polanyi Institute in Montreal set the objective of building on Polanyi's work to understand more clearly the strengths and weaknesses of the concept of instituted economic processes. We were particularly fortunate to have the opening address made by Professor Kari Polanyi-Levitt, the daughter of Karl Polanyi.

Papers Presented:

John Harriss – London School of Economics

Institutions, Politics and Culture: a Polanyian Perspective on Economic Change

Mark Harvey – Manchester University

Instituting Economic Processes in Society

Pat Devine – Manchester University

Reinstituting the Economic Process: (Re) embedding the Economy in Society and Nature

Sally Randles – Manchester University

The Legacy of Karl Polanyi: Issues for a Neo-Polanyian Research Agenda in Economic Sociology

Peter McMylor – Manchester University

Moral Philosophy and Economic Sociology: what McIntyre learnt from Polanyi

Geoff Hodgson – University of Hertfordshire

The Enforcement of Contracts and Property Rights: Constitutive versus Epiphenomenal Conceptions of Law

Daniel Ankarloo – Lund University, Sweden

Using Karl Polanyi as a stepping stone for a critique of the new institutionalist orthodoxy

Marguerite Mendell – Concordia University, Canada

Karl Polanyi and Instituted Processes of Economic Democratization

Michele Cangiani – University of Venice

The Forgotten Institutions

Miriam Glucksmann – University of Essex

Call Connection: Call Centres and Varieties of Socio-Economic Intermediation

Andy McMeekin and Mark Harvey – Manchester University

Brazilian Genomics and Bio-informatics: Instituting Innovation Processes in a Global Context

Natalie Moncel – Manchester University

Labour Markets as Instituted Economic Process: A comparison of France and the UK

Appendices

1

Working Paper, Discussion Paper & Briefing Paper Series

The working, discussion and briefing paper series is an important vehicle for CRIC to present its preliminary research results. Discussion Papers are used by the Centre to communicate quickly work in progress to our audiences. Typically these papers are submitted for publication to academic journals after revision. Working Papers are more finalised pieces of work. They often relate quite closely to published work but may contain more detail or data than would be appropriate for an academic journal. Some of these papers may be the basis for future monographs. They have an ISBN number. Briefing Papers are prepared for specific, usually non-academic audiences. They provide a concise account of the main conclusions arising from a piece of CRIC research.

The working, discussion and briefing paper series are edited by Professor Coombs. All working and discussion papers are refereed outside of CRIC.

We list below only those papers below, which have appeared since the last annual report (September 2001 – October 2002). A full listing is available on the web site from which they may be downloaded.

Discussion Papers

Harvey, M, Randles, S

Markets, the Organisation of Exchanges and 'Instituted Economic Process' – an analytical perspective, CRIC Discussion paper no 51, July 2002.

McMeekin, A, Harvey, M

The Information of Bioinformatic Knowledge Markets: An 'Economies of Knowledge' Approach, CRIC Discussion paper no 52, July 2002.

Randles, S, Warde, A

On Economic Sociology, Competition and Markets, CRIC Discussion paper no 53, November 2001.

Randles, S

Geographies of Collective Reflexivity? Thinking Futures, Doing Urban Governance and Influencing Economic Development in Manchester and Lyon. CRIC Discussion paper no 54, December 2001.

Southerton, D, Shove, E, Warde, A

Harried and Hurried: The Time Shortage and the Co-ordination of Everyday Life, CRIC Discussion paper no 47, October 2001

Tether, B

Identifying Innovation, Innovators and Innovative Behaviours: A Critical Assessment of the Community Innovation Survey (CIS), CRIC Discussion paper no 48, December 2001

Tether, B.S (2002)

'The Sources and Aims of Innovation in Services: Variety Between and Within Sectors', CRIC Discussion Paper No 55, September 2002.

Tomlinson, M, Tidings P.N

Do Services Matter for African Economic Development? An Empirical Exploration, CRIC Discussion paper no 49, January 2002

Tomlinson, M

Measuring Competence and Knowledge Using Employee Surveys: Evidence Using the British Skills Survey of 1997, CRIC Discussion paper no, 50, June 2002.

2 *Seminars*

February 2002

'Everyday Consumption of Technology'

Organised by CRIC

Jo Bryce (Presented)

Dept of Psychology, University of Central Lancashire

Sara Bolzonello

CRIC, University of Manchester

Jeff Butler

PREST, University of Manchester

Karen Evans

Department of Sociology, Social Policy and Social Work Studies, University of Liverpool

John Gill (Presented)

Scientific Research Unit, Royal National Institute for the Blind

Lawrence Green

PREST, University of Manchester

Jon Hindmarsh (Presented)

WIT, King's College London

Christine Hine (Presented)

CRICT, Brunel University

Mike Hodson

Salford University

Andy Hopkirk

National Computing Centre

Somya Joshi

Salford University

Paul Joyce

E-learning Initiative, Salford University

Andrea Mina

CRIC, University of Manchester

Barbara Morton
CROMTEC, UMIST

Peter Noyce
School of Pharmacy and Pharmaceutical Sciences, University of Manchester

Jason Rutter
CRIC, University of Manchester

Dale Southerton
CRIC, University of Manchester

Vivien Walsh
CROMTEC, Manchester School of Management

Alan Warde
CRIC, University of Manchester

3 *CRIC Staff*

Directorate

Professor Rod Coombs - Director

Is Professor of Technology Management at UMIST. After a physics degree at Kent, he worked in biophysics research at Oxford for two years. An MSc and PhD at Manchester in the economics of innovation converted him into a social scientist. Since then he has developed a broad portfolio of research, teaching and consultancy in the areas of innovation and technology management. He is particularly interested in the organisation of business to achieve innovation, and in the integration of technology into strategy.

Professor Jeremy Howells - Director

He has a PhD from the University of Cambridge on R&D in innovation and he has worked at the Universities of Oxford and Newcastle upon Tyne before returning to the Judge Institute of Management Studies at Cambridge. In 1996 he moved to PREST where he is a Director, a post which he holds on a half time basis with his Directorship at CRIC. He has written and co-authored seven books on research and innovation as well as co-editing a further two books and is currently completing two books, one on industry-academic links, knowledge transfer and innovation and another on knowledge and innovation.

Professor J Stanley Metcalfe CBE - Director

Stanley Jevons Professor of Political Economy and Cobden Lecturer at the University of Manchester. During his career has lectured at the Universities of Manchester and Liverpool. He is an Honorary Professor of Economics at the University of Queensland. He has been actively involved in the development of science and technology policy in the UK, being a member first of ACORD and subsequently ACOST. He was, until October 1997, a member of the Monopolies and Mergers Commission. His research interests are currently focused upon evolutionary economics and the modelling of evolutionary processes in relation to innovation, competition and economic growth.

Professor Ian Miles - Director

Is Director of PREST (Policy Research in Engineering, Science and Technology), an Institute of the University of Manchester. Before coming to Manchester in 1990, he was for 18 years a researcher at the Science Policy Research Unit at the University of Sussex; and before then he received a first class honours BSc in Psychology at Manchester. His research interests include: innovation studies; foresight; indicators; service sectors. He has over a hundred publications spanning these areas.

Professor Alan Warde - Director

He joined the University of Manchester as Professor of Sociology in September 1999. He has degrees in politics and sociology and has formerly been employed at Leeds and Lancaster

Universities. He has research interests in the sociology of consumption, economic sociology, political sociology and the study of social change and has published widely in these areas. Recent research projects have focused on food consumption, including a study of eating out and an analysis of trends in household consumption in Britain. He plans to develop further work on consumption and on service provision in line with the long-term research plan of CRIC.

Administration

Sharon Hammond - Centre Administrator

She has an MA (Econ) in Development Studies, and a BA (Hons) degree in Combined Studies (History and Social Sciences) from the University of Manchester, and also read for an arts degree with the Open University. She has held a number of administrative posts in the University of Manchester, including Personal Assistant to the Head of the School of Epidemiology and Health Sciences in the University of Manchester Medical School.

CRIC Secretaries

Sharon Dalton

Professor Metcalfe's secretary. She has Diploma in Secretarial Skills from Leigh and Wigan College. She is on secondment from the School of Economic Studies.

Joyce Wilson

Accounts Assistant

Angie Lewis

CRIC Centre Secretary. She has an RSA Diploma in Secretarial Skills and NVQ Level 3 in Business Administration from Wilberforce College in Hull.

Web Administrator

Ishtiaq Hussain

He was appointed as a Web Developer/Information Officer in September 2000 and his duties are to develop and maintain the CRIC Web site. He is responsible for providing Web support and training for those staff members who wish to develop their own web pages for the site. Ishtiaq is also the list manager for the Innovation-Competition mailing list. Details of this can be found on the mailing list page.

Research Fellows

Dr Florence Bergeaud-Blackler – Research Associate

Dr Florence Bergeaud-Blackler is attached to a European study on Trust in Food, and Researcher Associate in the Maison Française d'Oxford (URA 1953 CNRS). She had previously carried out post-doctoral research on Anthropology of Food and Consumption. On a project funded by the French Ministry of Agriculture she led research on the trade and consumption of meat ritually slaughtered amongst Muslim population living in France.

Her current research interests include: Sociology and Anthropology of Food, Food Policy and Institutions, Religious and Ritual aspects of Food, Immigration, Religious policies and institutions.

Ms Sally Gee – Research Fellow

Sally joined CRIC in 2001 as a Research Assistant. She is working with Mark Harvey and Andrew McMeekin researching 'Distributed Innovation Processes' (DIPs) within the bio-informatics industry across Europe and the USA. This research will contribute to the development of the 'DIPs' and 'instituted economic process' approaches being formulated at CRIC.

Dr Mark Harvey - Senior Research Fellow

Studied History at Oxford University and obtained a PhD in Sociology at the LSE in 1969. From there he went to a research fellowship at the International Centre for Genetic Epistemology in Geneva. After he had been a lecturer at Brunel University, he spent many years in the construction industry where he was a senior shop steward. His research interest is to develop a comparative framework for studying varieties of capitalism, using the concept of 'instituted economic process' to analyse competition, market formation, and innovation. His current empirical fields include biotechnology, food and supermarkets, labour markets, the state and taxation systems. He is also working on 'economies of time' and 'economies of knowledge'.

Mr Andrew James – Research Fellow

He works jointly at CRIC and PREST, University of Manchester. Andrew joined the University of Manchester in 1993 after working as economic and industrial policy adviser to the Labour Party's Spokesperson on Industry in the House of Commons. His first degree was in Government at the London School of Economics and Political Science, followed by an MSc in Industrial Relations and Personnel Management (for which he received a distinction), also at LSE. Andrew's principal research focus is on company technology strategy and management. His interests include the study of technology management issues in mergers and acquisitions as well as innovation and strategy in the aerospace and defence sector. At present, he is working at CRIC on a European Commission TSER-funded study on sectoral systems of innovation within which he is focusing on medical services. Andrew is joint academic co-ordinator of the European Commission TSER Thematic Network "Managing European Technology, Defence and Competitiveness Issues" and a member of the EPSRC Technology Management Network. He holds a number of major research grants from UK and European bodies, including the ESRC/EPSRC Innovative Manufacturing Initiative for a study on the sourcing of technological knowledge by leading UK companies.

Dr Andrew McMeekin - Research Fellow

Has a first degree in management and chemical sciences from UMIST and an MSc in Science policy from the Science Policy Research Unit at Sussex University. Since 1993 he has been a research associate at CROMTEC. His current research interests include environmental influences on innovation in UK companies and the influence of expectations about the future upon the innovation process.

Ms Karenza Moore – Research Associate

Karenza has joined CRIC from The University of Surrey where she was doing her PhD research at the Digital World Research Centre. She will be working for 19 months with Dr. Jason Rutter on the European Commission funded MGAIN project looking into the development of mobile technologies in Europe and their use for entertainment. Her work will specifically centre on end users' behaviours and attitudes toward current and future mobile entertainment products highlighting relevant legislation and regulation aspects such as DRM, certification, and consumer trust management.

Dr Ronnie Ramlogan – Research Fellow

He obtained an MSc (Economics) from the University of the West Indies (Trinidad) and his PhD (Economics) from Manchester University. Since 1995 he has been involved in teaching at the School of Economic Studies at Manchester and also in undertaking assignments in the business sector. His last project involved re-engineering a business process for a major gas company. Ronnie has various research interests including industrialisation and development, steel sector economics, economic growth and latterly complex adaptive systems and the process of innovation.

Dr Sally Randles – Research Fellow

After graduating in Management Sciences from the University of Lancaster, Sally worked in market research then as a Survey Officer for the Consumers' Association. She then pursued a personal interest in the development and growth of small firms working as an advisor at the enterprise agency for Hammersmith & Fulham. Then the geographical focus of her work shifted to East London where she managed a training project assisting unemployed youth and adults in Spitalfields. For the next four years she held the post of Principal Economic Development Officer at Bedfordshire County Council working on local economic strategy formulation and urban regeneration. She holds an MBA from the University of Kingston and in 1996 she embarked on a PhD with the School of Geography at the University of Manchester, comparing the evolutionary development of the political economies of Manchester, UK and Lyon, France. This she completed prior to joining CRIC where her main research interests explore 'competition' and 'competitiveness' in the inter-locational and corporate contexts, evolutionary political-economy, scale and spatial and economic development policy particularly with reference to cities.

Dr Jason Rutter – Research Fellow

Studied Drama before completing his PhD, 'Stand-up as Interaction: Performance and Audience in Comedy Venues', in the Sociology Department at the University of Salford. He worked as a research fellow on the Manchester Airport funded project Computer-Mediated Interaction: Local Newsgroups and the Development of Sociability on the Net before taking up a post at CRIC. His research interests include interaction, humour research and use of web technologies.

Dr Dale Southerton – Research Fellow

He has a first degree in Geography and Sociology from Keele University and a PhD from Lancaster University where he spent four years in the Department of Sociology. His thesis explored the role of consumption in processes of identity-formation with a particular focus on a New Town Community in the South of England. Among the research themes included analysis of kitchen consumption and a focus upon the significance of social networks (in terms of the concept social capital) in mediating

senses of belonging to social groups. He is presently the convenor of the British Sociological Association Study Group on Consumption and co-award holder of the European Science Foundation research network entitled 'Infrastructures of Consumption'. His current research interests include convenience and the everyday management of time and space; new domestic technologies; social networks and senses of belonging; and the relevance of social class in understanding consumption practices.

Dr Bruce Tether – Senior Research Fellow

Graduated in Geography from the University of Newcastle upon Tyne and has a PhD from the Science Policy Research Unit at the University of Sussex. He has been a Research Fellow at CRIC since the establishment of the Centre in January 1997. Within the centre, his work mainly concerns the economics of innovation, particularly with reference to services and 'systems of innovation', or 'distributed innovation processes'. He also has a strong interest in how competition shapes innovation, and innovation competition. Prior to joining CRIC, he was for two years a Research Fellow at Warwick Business School, working in the Centre for Small and Medium Sized Enterprises.

Dr Mark Tomlinson – Senior Research Fellow

Began his research career in the Faculty of Economic and Social Studies at Manchester University where he worked on econometric studies of social mobility in India and the sociology and economics of consumer demand. He subsequently spent four years at Nuffield College Oxford where he worked on new models and techniques for studying labour markets in Europe. His current interests include evolutionary economics; the "service sector" and its relationship with manufacturing; consumer demand and the construction of markets; and the measurement of innovation; labour and innovation.

Ms Elvira Uyarra – Research Associate

Elvira joined CRIC in October 2002 as a Research Associate. She is working with Jeremy Howells and Bruce Tether on the EU funded project *Innovation in Services: Issues at Stake and Trends* (INNO-3). During 2002, she has also collaborated on several research projects with CRIC, such as the ESRC funded *Innovative Health Technologies* programme and the CRIC/CRC competition research programme, leading to a co-authored paper "Innovation as a competitive process" (with Stanley Metcalfe and Ronnie Ramlogan).

Earlier in 2001 / 02, she was a Marie Curie Fellow for 12 months at the University of Manchester within PREST/CRIC, supervised by Jeremy Howells. A graduate of Economics, she holds an MSc in Technical Change and Regional Development from The University of Cardiff (Wales) and a PhD (in progress) from the University of the Basque Country (Spain).

Dr Corinne Wales – Research Associate

Dr. Corinne Wales is a Research Associate at CRIC where she is attached to a European study on Trust in Food. She had previously carried out post-doctoral research into the UK food risk and policy domain at the University of Leeds. On a project funded by the Food Standards Agency (FSA) she was part of a research team aiming to increase understanding of how to develop sensitive, effective risk communication and to explore the efficacy of multi-stakeholder workshops as a forum to develop and test communication strategies. The multi-disciplinary project combines

qualitative and quantitative methodologies and a wide range of stakeholders and lay publics. She is still actively involved in co-authorship of publications resulting from this study, which is ongoing until March 2003.

Her research interests include: Democratic theory, deliberative democracy and practice e.g. innovations such as consensus conferences, stakeholder forums, citizens' juries. The sociology and politics of risk, risk perception and communication.

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CRIC Associates

CRIC Project Associates are members of the full-time teaching staff of the University of Manchester, UMIST and the Manchester Business School who are actively involved in CRIC projects, sometimes taking on the role of project leader.

Dr Suma Athreye - The Open University.

Professor David Auckland - Campus Ventures, University of Manchester

Ms Kate Barker - PREST, University of Manchester

Professor Peter Dicken - Department of Geography, University of Manchester

Professor Diane Elson - Department of Sociology, University of Essex

Professor Luke Georghiou - PREST, University of Manchester

Dr Ken Green - Manchester School of Management, UMIST

Dr Damien Grimshaw – Manchester School of Management, UMIST

Mr Andrew James - PREST, University of Manchester

Dr Keith Julian - PREST, University of Manchester

Professor Denis Loveridge - PREST, University of Manchester

Dr Silvia Massini - Manchester School of Management, UMIST

Dr Marcella Miozzo - Manchester School of Management, UMIST

Professor Alan Pearson - Manchester Business School

Professor Jill Rubery – Manchester School of Management, UMIST

Dr Vivien Walsh - Manchester School of Management, UMIST

Dr Mo Yamin - Manchester School of Management, UMIST

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Honorary Associate Fellows

To further the development of the research programme CRIC has appointed Associate and Visiting Fellows who work closely with CRIC staff in the development of the research programme.

At the time of writing, the following scholars have been appointed honorary associate fellows with the Centre:

Dr Ed Amann

University of Manchester

Professor Cristiano Antonelli

Professor of Economics, University of Torino, Italy

Professor Gilberto Antonelli

Professor of Economics, University of Bologna, Italy

Dr Paul Artes

Dalhousie University, Halifax, Nova Scotia, Canada

Dr Jo Bryce

University of Central Lancashire

Professor Mario Caldernini

Politecnico di Torino, Italy

Dr William Cannell

Member of the European Commission DGXII (Science Research and Development)

Professor Robin Cowan

MERIT, University of Limburg, Maastricht, Holland

Dr Collette Fagen

University of Manchester

Dr David Fishlock

Former Science Correspondent, Financial Times

Professor Dominique Foray

Directeur de Recherche at the Centre National de la Recherche Scientifique, at the University of Paris-Dauphine, France

Professor John Foster

Professor of Economics, Head of Department, University of Queensland, Brisbane

Professor Peter Hall

Professor of Economics and Management, University College, University of New South Wales, ADFA, Canberra

Professor Steve Klepper

Professor of Economics and Social Sciences, Carnegie Mellon University, Pittsburgh, USA.

Dr David Marshall

Department of Business Studies, University of Edinburgh

Dr Lydia Martens

University of Stirling

Professor Jonathon Michie

Birbeck College, London

Professor Klaus Nielson

Professor of Social Science and Institutional Theory, University of Roskilde, Denmark

Dr Elizabeth Shove

Director of the Centre for Science Studies, University of Lancaster

Dr Roberto Simonetti

The Open University, Milton Keynes

Professor Morris Teubal

Professor of Economics, The Jerusalem Institute for Israel Studies

Dr Robert Whelan

UK National Physical Laboratory/Smith Institute

Professor Ulrich Witt

Professor of Economics and Director of Max Planck Institute, Jena. Germany

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Advisory Committee

The Advisory Committee advises the Director on all matters to do with the operation and development of the Centre and on relations between the Centre and ESRC. As of November 2002, it has the following distinguished members:

Professor Ron Amann (Chairman)

Director General of the Centre for Management and Policy Studies

As Director General of the new Centre for Management and Policy Studies, Professor Amann's principal tasks are to create a resource at the heart of government for the development and dissemination of best practice in both the formulation and implementation of policy; and to ensure that the Civil Service is cultivating the right skills, culture and approaches to perform its task. In practical terms this involves the development of networks across both the public and private sectors in order to identify and absorb best practice which will find expression in new programmes of training, research and policy evaluation. The CMPS, which was founded in June 1999, is located within the Cabinet Office and incorporates the Civil Service College.

Before moving to his present post Professor Amann was, for five years, Chief Executive and Deputy Chairman of the Economic and Social Science Research Council (ESRC). Prior to that he was Pro-Vice-Chancellor and Professor of Comparative Politics at the University of Birmingham, specialising in problems of innovation and science policy in centrally planned economies.

Professor John Bessant

Is Professor of Technology Management and Head of the Centre for Research in Innovation Management at the University of Brighton (and part-time Professor at the Science Research Policy Unit at the University of Sussex). Originally trained as a chemical engineer, he received his PhD in 1978 based on research on innovation management within the chemical industry. Following this he spend four years as a Research Fellow in the Technology Policy Unit at Aston University before moving to Brighton Business School.

Dr Phil Gamlen

Phil Gamlen is a member of ICI's Technology Board, and a Director in the ICI Group Technology Office with particular responsibility for the Group Technology Strategy; the ICI Collaborative R & D programmes; Technology Sourcing, and Communications and PR issues as they relate to Technology. A career in ICI has spanned manufacturing, product management, R & D and technology. Research activities have been highly diverse ranging from mining to upper atmosphere chemistry and physics, and all phases in between. In the past few years he has been particularly concerned with practices and polices to enhance innovation, and with the management of intellectual capital during acquisitions and divestment.

Dr Alan Calder CBE

Graduated from Aberdeen University with a BSc and a PhD in Organic Chemistry in 1968 after which he joined ICI Nobel Division. He held a variety of positions within the company becoming Research Manager, Colours and Fine Chemical in 1987. Until 1996 he was General Manager, Research and Development, for Zeneca Specialities. In 1993 he was appointed Chairman of the SERC (EPSRC) Chemistry Committee and in April 1994 he became Chairman of the UK Chemical Industry Foresight Panel. His involvement with Foresight continues as a member of the new LINK Board.

Professor Alan Hughes

Is Director of the ESRC Centre for Business Research at the University of Cambridge, and Fellow of Sidney Sussex College. His research interests include the financing, growth, innovative behaviour and survival of small firms; take-overs and corporate governance; manufacturing competitiveness, and competition and industrial policy. He has acted as a consultant in these and other areas to the Office of Fair Trading, the Department of Trade and Industry, the World Bank, the United Nations and the European Commission.

Professor Ray Hudson

Is Professor of Geography at the University of Durham and an economic geographer, with particular interests in relationships between economic restructuring, labour market change and territorial development policies. He is Director of the ONS National On-Line Manpower Information System, and Chair of the International Centre for Regional Regeneration and Development Studies. He has a BA, PhD and DSc from Bristol University and Honorary DSc from Roskilde University Denmark. He is currently a Vice President of the Royal Geographical Society.

Dr Alistair Keddie

He is Head of DTI's Innovation Unit, which he established in 1991. Prior to his current job he was Head of DTI's Single Market Unit. Before that he was Head of the international science and technology branch in DTI's Research and Technology Policy Division, a member of the Policy's Planning Unit; and before moving to DIT Headquarters in 1984 was head of the Air Pollution Division at the then Warren Spring Laboratory.

Professor Bridget Rosewell

Joined the Board of Britannia Building Society in 1999. She is an economist and a founding director and executive chairman of the economic and market analysis firm Volterra Consulting. Professor Rosewell, a visiting professor at City University Business School, is chief economic advisor to the British Retail Consortium and special advisor on economic policy to the House of Commons Treasury Select Committee. She lives and works in London. A former member of the Chancellor's Independent Panel of Forecasters, she is frequent broadcaster and commentator.

Professor Franco Malerba

Professor Franco Malerba received his PhD from Yale University and has subsequently followed an academic career divided between the United States, he is Visiting Professor at Stamford University, and Italy, where he is Director of CESPRI – the research centre on innovation and internationalisation at Bocconi University. He is one of the leading authorities in the field of innovation studies and is currently editor of Industrial and Corporate Change and Advisory Editor of Research Policy. He is the current President of the International J A Shumpeter Society.

Dr Sandy Thomas

Received her Ph.D. from the University of London. She lectured in genetics at London University for several years before moving to the Science Policy Research Unit at the University of Sussex, U.K. Over the next nine years she developed a wide-ranging research program on biotechnology policy and has published several articles on intellectual property issues. In 1997, she became the Director of the Nuffield Council on Bioethics.

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Training

Courses Attended

CRIC staff have attended the following training courses over the reporting year

Sharon Hammond	Business Objects Course	Manchester University
Joyce Wilson	Business Objects Course	Manchester University
Angela Lewis	Endnote Course	Manchester University
Angela Lewis	First Aid Course	Manchester University
Angela Lewis	Professional Secretary/Administrator	Manchester University
Sharon Hammond	Staff Appraiser Training	Manchester University

All CRIC staff have received training during the year in the construction of web pages. This training has been provided by the CRIC webmaster Ishtiaq Hussain. Furthermore, all CRIC staff have attended the University of Manchester Equality Opportunity and Diversity Course.

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PhD Programme

CRIC's PhD programme has continued to expand. CRIC currently has three PhD students. Tyler Chamberlain, "Competing in Technologically Intensive Industries: International Trade Policy and Corporate Strategy", Andrea Mina "The Diffusion of Wireless Communication Technologies", and Davide Consoli "Issues on Service Innovation: The Italian Case a Comparative Perspective". Davide Consoli was successful in his bid for an ESRC studentship in September 2001.

CRIC has also been successful in winning two ESRC Centre Linked studentships from a tranche of places competed for by all ESRC-funded research centres. The first of these, Sally Gee, will start in January 2003 and will be supervised by Professor Rod Coombs.

CRIC's first PhD student Ivan Hernandez passed his oral examination in February 2002. Ivan's thesis is entitled, "Economics of Innovation in Less Developed Countries: A Case Study of Colombian Manufacturing Industry" and he has now been appointed a University Lecturer in Colombia.

Postgraduate training within CRIC for PhD's in their first year is undertaken in conjunction with PREST as an ESRC recognised postgraduate training outlet (MAN14000). These programmes are also run within wider Federal School of Business and Management and Faculty of Social Sciences and Law postgraduate training modules. With the merger of the two universities these postgraduate courses and training programmes are under review, but CRIC will remain part of a strong postgraduate training environment for those interested in undertaking PhD involved in research on innovation within a social science or management perspective.

In relation to postgraduate training CRIC, also in collaboration with PREST, has been highly successful in gaining Marie Curie Fellowships run by the European Commission. The first two fellows, Nathalie Moncel and Elvira Uyarra, were both awarded twelve month periods in 2001-2. In 2002 Dr. Nathalie Moncel, who was funded for 12 months, has moved to yet another Marie Curie Fellowship at UMIST, whilst Elvira Uyarra has gone on to research position within CRIC. In September 2002 three further Marie Curie fellows arrived and will be based in CRIC for periods ranging from six to nine months. These are Pier Paolo Patrucco (Turin), Blandina Oliviera (Lisbon) and Gilles Pariente (Toulouse). These Fellows not only provide a wider and richer research environment for our PhD students, but also centrally work on research topics which overlap with the wider CRIC research programme.

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CRIC Contact Details

All general enquiries to the Centre should be made to: 0161 275 7365, fax: 0161 275 7361

Also, you can contact us through the CRIC web site at: <http://les1.man.ac.uk/cric>

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Mrs Joyce Wilson	0161 275 7377	Joyce.Wilson@man.ac.uk

Web Administrator

Mr Ishtiaq Hussain	0161 275 7804	Ishty.Hussain@man.ac.uk
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10

Performance Indicators

October 2001 – September 2002

Indicator Group A: Publications & Dissemination

A1: Books

Harvey, M (2001)

Undermining Construction. The corrosive effects of false self-employment. The Institute of Employment Rights. London, 2001.

McMeekin, A, Green, K, Tomlinson, M & Walsh, V (eds) (2002)

Innovation by Demand: An Interdisciplinary Approach to the Study of Demand and its Role in Innovation. Manchester: Manchester University Press.

A2: Book Chapters

Bryce, J & Rutter, J,

‘Spectacle of the Deathmatch: Character and Narrative in First Person Shooters’ in G. King & Tkrzywinska (eds), Screenplay: Cinema/video games/interfaces, Wallflower Press, 2002, pp 66 - 80

Harvey, M,

‘Markets, supermarkets and the macro-social shaping of demand: an instituted economic process approach’, in McMeekin, A, Green, K, Tomlinson, M, and Walsh, V, 2002. Innovation by Demand: An Interdisciplinary Approach to the Study of Demand and its Role in Innovation. MUP.

Howells, J,

‘The Nature of Innovation in Services’ in Innovation and Productivity in Services OECD, Paris, (ISBN 92-64-18609-3), pp 55 - 79

Lundvall, B-Å, & Tomlinson, M (2001)

‘Learning-by-comparing – reflections on the use an abuse of international benchmarking’, in Sweeney, G (ed), Innovation, Economic Progress and the Quality of Life, Cheltenham, Edward Elgar

Lundvall, B- Å & Tomlinson, M (2002)

‘International benchmarking as a policy learning tool’, In Maria Joao Rodriguez (ed), The New Knowledge Economy in Europe: A strategy for international competitiveness with social cohesion. Cheltenham, Edward Elgar, pp 203 - 231

Metcalf, J, S (2002)

‘Consumption, Preferences and the Evolutionary Agenda’, in Witt, U, Escaping Satiation: The Demand Side of Economic Growth, Springer Verlag, Berlin

Miles, I (2002)

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I Miles (2002)

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Warde, A, (2002)

‘Changing conceptions of consumption’, in Anderson, A, Meethan, K & Miles, S (eds) The Changing Consumer, (London, Routledge, 2002), 10 - 24.

Warde, A,

‘Production, consumption and “cultural economy”’, in P DuGay & M Pryke (eds), Cultural Economy: cultural analysis and commercial life, (London, Sage, 2002) 185 - 200.

Warde, A,

‘Consumers, identity and belonging: reflections on some theses of Zygmunt Bauman’, to be re-printed in P. Beiharz (ed) Zygmunt Bauman, (Sage, 2002)

Warde, A,

‘Social mechanisms generating demand: a review and manifesto’, in A McMeekin, K Green, M Tomlinson & V Walsh (eds) Innovation by Demand: interdisciplinary approaches to the study of demand and its role in innovation, (Manchester, Manchester University Press), 10-22.

A3: Refereed Journal Papers

Allen, P, Ramlogan, R & Randles, S

‘Complex Systems and the Merger Process’, Technology Analysis and Strategic Management, Vol. 14 (3), pp 315 - 329

Bezold, C & Miles, I

‘Introduction: From Forecasting the Future of Technology to Shaping the Priorities for Research’ Foresight, Vol.4 (4) pg 3. Online to subscribers at: www.emeraldinsight.com/fs

Bezold, C & Miles, I

‘Social Science Research Priorities Related to Genomics: The “Bottom Line” for the ESRC Genomics Scenarios Project’ Foresight Vol.4 (4) pp 36-42. Online to subscribers at: www.emeraldinsight.com/fs

Bornberg-Baur, E, Harvey, M & McMeekin, A

‘Bioinformatics Education – Skills shortage or fundamental shift in skill creation and demand?’, European Biopharmaceutical Review, May 14, 2002, pp 104-110.

Coombs, R & Georghiou, L,

‘A New Industrial Ecology’, in Science, pg. 471, April 19, 2002

Coombs R & Metcalfe J S

‘Innovation in Pharmaceutical. Perspectives on the Coordination and Creation of Capabilities’, Technology Analysis and Strategic Management, Vol. 14 (3), 261 - 271

Harvey, M, McMeekin, A & Miles, I (2002)

‘Genomics and Social Science: Issues and Priorities’ pp 13-28, Foresight, vol. 4, no. 4, ISSN 1463 6689, pp 13-29 online to subscribers at www.emeraldinsight.com/fs

Howells, J, (2002)

‘Tacit knowledge, innovation and economic geography’, Urban Studies, 33, 871 – 884.

Howells, J, (2002)

‘Mind the gap: information and communication technologies, knowledge activities and innovation in the pharmaceutical industry’ Technology Analysis & Strategic Management 14, 355-370.

Howells, J, (2002)

‘A European innovation system in pharmaceuticals?’ International Journal of Biotechnology 4 (1), 96-114.

James A (2002)

‘The Strategic Management of Mergers and Acquisitions in the Pharmaceutical Industry: Developing a Resource-Based Perspective Technology Analysis and Strategic Management 14, (3) pp299-314

Metcalfe, J,S (2001)

‘Institutions and Progress’, Industrial and Corporate Change, Vol. 10, No. 3, pp. 561 – 586

Metcalfe, J, S & Currie, M (2001)

'Firm Routines, Customer Switching and Market Selection under Duopoly', Journal of Evolutionary Economics. Vo. 11, No. 4, pp 433-456

Metcalfe, J, S, Burton, M & Smith, V (2001)

'Innovation and the Demand for Food and Drug Labelling Regulation in an Evolutionary Model of Industry Dynamics', Structural Change and Economic Dynamics, Vol. 12, No 4, pp 457-477

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'Knowledge of Growth and the Growth of Knowledge', Journal of Evolutionary Economics, Vol. 12 pp 3 – 15

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'Innovation, Competition and Growth: Evolving Complexity or Complex Evolution', Revista Brasileira de Inovação, Vol. 1 pp 85 – 122

Randles, S (2002)

'Complex Systems Applied: The merger that made GSK', Technology Analysis and Strategic Management, Vol. 14 (3), pp 331 - 354

Southerton, D

'Us and Them': identification and class boundaries'. Special Issues 'Monsters and Morals' of Soundings: a journal of politics and culture (edited by Elizabeth Silva)pp133-147

Tether, B.S & Hipp, C (2002)

'Knowledge Intensive, Technical and Other Services: Patterns of Competitiveness and Innovation; Technology Analysis and Strategic Management, 14.2 pp 163-182

Tether, B.S (2002)

'Who Co-operates for Innovation, and Why? Research Policy, 31.6, pp 947-967

Warde, A & Tampubolon, G, (2002)

'Social capital, networks and leisure consumption', Sociological Review, 50(2), 2002, pp155 – 181

Yaojun, L, Savage, M, Tampubolon, G, Warde, A & Tomlinson, M (2002)

'Dynamics of Social Capital: Trends and Turnover in Associational Membership in England and Wales, 1972–1999', Sociological Research online, Vol.7(3), [ttp://www.socresonline.org.uk/7/3/li.html](http://www.socresonline.org.uk/7/3/li.html)

In addition to the above, CRIC staff have edited the following special issues of refereed journals during the reporting period.

James A (2002)

Guest Editor of a Special Issue 'Healthy Business? Capabilities, Complexity and Restructuring in Pharmaceuticals' Technology Analysis and Strategic Management V14 (3)

Metcalfe J S (2002)

Guest Editor of Special Issue 'Change, Transformation and Development' Journal of Evolutionary Economics V12 Numbers 1-2.

A4: Non-Refereed Journal Papers

Harvey, M

'The entrenchment of false self-employment in the UK construction industry' The Tax Advisor, commissioned article, January 16 – 19 2002.

Miles, I (2002)

"Knowledge Intensive Business Services – from professional to technological knowledge" Economic Trends (Finland) Vol 2 pp 34-36

Miles, I (2002)

"Social Relationships: Main Way of Protecting Knowledge", Economic Trends (Finland) Vol 2, pp 37-40

A5: Other Publications

Bryce, J & Rutter, J (2002)

'Killing Like a Girl: Gendered Gaming and Girl Gamers' Visibility', CGDC Conference Proceedings, University of Tampere Press, Tampere, Finland, pp 243-255

Clark, K and Tomlinson, M (2001),

'The Determinants of Work Effort: Evidence from the Employment in Britain Survey', Discussion Paper 0113, School of Economic Studies, University of Manchester.

Coombs, R, Ford, R & Georghiou, L, (2001)

'Generation and Selection of Successful Research Projects', Research report to the Technology Strategy Forum, Autumn 2001, published at: http://les.man.ac.uk/prest/tsf/downloads/tsf_report.pdf

Harvey, M & McMeekin, A (2002)

'UK Bioinformatics: Current Landscapes and Future Horizons.' DTI report, official web-publication.

Howells, J, Green, L & Miles, I (2001)

'Services and Innovation: Dynamics of Service Innovation in the European Union', Final report to HM Treasury and Department of Trade and Industry, London. Available online at http://europa.eu.int/comm.economy_finance/epc/documents/annexg_en.pdf

Miles I, Harvey M., McMeekin A

Genomics and Society: Priorities for Social Science Research, documents published in hard copy and on CDROM by Institute for Alternative Futures, and on their website at <http://www.altfutures.com> and at CRIC <http://les1.man.ac.uk/cric>

Jarvis, D & Miles, I (2002)

New Dimensions for Manufacturing: A UK Strategy for Nanotechnology, London: Advisory Group on Nanotechnology DTI, www.dti.gov.uk/innovation/nanotechnologyreport.pdf

Metcalf, J, S (2002)

'Technology and Economic Development: A Comparative Perspective', UNIDO Working Paper Series, available at <http://www.unido.org/userfiles/hartmany/IDR-metcalf-paper1.pdf>

Southerton, D (2002)

'Gershuny, Changing times: work and leisure in postindustrial society', a review in British Journal of Sociology, 53(3): 500-501.

Tether, B, S & Metcalfe, J,S (2001)

'Services and Systems' an ESSY Working Paper, CRIC, University of Manchester and UMIST, Manchester, UK, <http://www.cespri.unni-bocconi.it/essy/wpapers.htm>, WP2/RP1

Tomlinson, M (2002)

'The academic robotics community in the UK: Web based data construction and analysis of a distributed community of practice', DRUID Working Paper 2002-7, University of Aalborg, Denmark.

Warde, A (2002)

Scholliers, P (Editor) 'Food, Drink and Identity: Cooking, Eating and Drinking in Europe since the Middle-Ages', a review in Sociological Research Online, 6 (4)

CRIC Paper Series

The working, discussion and briefing paper series is an important vehicle for CRIC to present its preliminary research results. Discussion Papers are used by the Centre to communicate quickly work in progress to our audiences. Typically these papers are submitted for publication to academic journals after revision. Working Papers are more finalised pieces of work. They often relate quite closely to published work but may contain more detail or data than would be appropriate for an academic journal. Some of these papers may be the basis for future monographs. They have an ISBN number. Briefing Papers are prepared for specific, usually non-academic audiences. They provide a concise account of the main conclusions arising from a piece of CRIC research.

The working, discussion and briefing paper series are edited by Professor Coombs. All working and discussion papers are refereed outside of CRIC. A full listing is available on the web site from which they may be downloaded. <http://les1.man.ac.uk/cric>

Harvey, M & Randles, S

'Markets, the organisation of exchanges and 'instituted economic process' – analytical perspective', CRIC Discussion Paper No 51. July 2002.

McMeekin, A & Harvey, M

'The formation of bioinformatic knowledge markets. An 'economies of knowledge' approach.' CRIC Discussion Paper No 52, July 2002.

Southerton, D, Shove, E & Warde, A,

'Harried and hurried: time shortage and the coordination of everyday life', CRIC Discussion Paper No 47, October 2001

Tether, B.S

'Identifying Innovation, Innovators and Innovative Behaviours: A Critical Assessment of the Community Innovation Survey (CIS)', CRIC Discussion Paper No 48, December 2001

Tether, B.S

'The Sources and Aims of Innovation in Services: Variety Between and Within Sectors', CRIC Discussion Paper No 55, September 2002.

Tomlinson, M and Ndhlovu , T

'Do services matter for African economic development: An empirical exploration', CRIC Discussion Paper series, No 49, December 2001.

Tomlinson, M

'Measuring competence and knowledge using employee surveys: Evidence using the British Skills Survey of 1997', CRIC Discussion Paper No 50, June 2002.

A6 Datasets

Tomlinson, M & Warde, A, with Savage, M and Longhunsen, B

Deposited data-sets from ESRC project 'Social Capital and Social Networks' at ESRC Data Archive.

Indicator Group B: External Relationships

B1: Membership of Committees

Coombs, R

Strategic Advisory Group of EPSRC Programme on Basic Technology

Coombs, R

Strategic Advisory Team of EPSRC Innovative Manufacturing Programme

Coombs, R

Member of ESRC Panel to evaluate bids for recognition for Masters and Doctoral training.

Harvey, M

Editorial Board, International Journal of Supply Chain Management (1999 -)

Howells, J

Associate Editor 'International Journal of Technology Transfer and Commercialisation'. 2002

Howells J

Member of EC 'Benchmarking' Panel for Innovation and the Science Base 2001-2

Howells J

Member of EU Committee considering EU Enlargement 2001-2

Metcalf, J, S

Member of VSNU Panel for 'Assessment of Research Quality' in Economics in the Netherlands

Metcalf, J, S

Member of ESRC Commissioning Panel for the Evolution of Business Knowledge Programme

Metcalf, J, S

Member of the Editorial Boards of the following Journals: Economics, Innovation and New Technology, Journal of Evolutionary Economics Board, Structural Change and Economic Dynamics, Information Economics and Policy, International Journal of Technology Management, Metroeconomica.

Metcalf, J, S

Member of the Volkswagen Foundation Panel funding a programme of work on Economics and Innovation.

Miles, I

Co-organiser, member of scientific panel for RESER conference “Services and Innovation”, September 2001

Miles, I

Member of EC “Benchmarking” panel for RTD policy, 2001-2

Miles, I

Editorial board of Foresight, International Journal of Services Technology Management.

Ramlogan, R

Regional Coordinator (North West) for the Complexity Society

Rutter, J

Consultant Editor: Humour: International Journal of Humour Research, 2002.

Southerton, D

Member of European Science Foundations Research Network ‘Mediating Technology’ (2001)

Warde, A

BBSRC, ESRC, MAFF Eating, Food and Health LINK Programme Management Committee, 2001 –

Warde, A

Appraisal panel for Food Standards Agency, commissioning research on Children and advertising, September 2002.

Warde, A

Editorial Board member of Journal of Consumer Culture, Appetite, and The Sociology Press

Warde, A

International Advisory Board, ‘Consumer cultures of young people in the information society’, Turku School of Economics and Business Administration/Finnish Ministry of Environment, 2000 –

Warde A

Advisory Committee member, Pavis Centre for Social and Cultural Research, Open University.

B2: Memberships/Networking

Harvey, M
Referee for Cambridge Journal of Economics, Gender Work and Organisation, Supply Chain Management.

Southerton, D
Euro Sociological Association Working Group on Consumption to (1999, 2000, 2001)

Southerton, D
European Science Foundation Research Network, 'Consumption, Everyday Life and Sustainability', co-organiser of summer school, (1999 & 2001), Lancaster University.

Southerton, D
Co-award holder, European Science Foundation International Workshop, 'Infrastructures of Consumption', Wageningen University, The Netherlands, (2000.)

Rutter, J
EC Expression of Interest for a Network of Excellence on Digital Gaming, 2002.

Tomlinson, M
Referee for British Journal of Industrial Relations, 2002.

B3: Official Visits to CRIC

Dr Daniel Codorniu Pujals, First Vice Minister of Science and Technology Cuba.
Professor Kari Polanyi Levitt, Concordia University, Canada October 2002

B4: Overseas Visiting Fellows

Sara Bolzonello	- Italy
Professor Mika Pantzar	- National Consumer Research Centre, Finland.
Professor Charles Edquist	- Linköping University
Professor Hirooka	- Kobe University

B5: Advice & Consultancy

Coombs, R
Continued as retained consultant to Smith and Nephew plc

Coombs, R
Consultant to Sharp Laboratories UK Ltd, December, 2001

Coombs, R
Consulting project (with Miles, I & Tampubolon, G) for BNFL, Spring, 2002

Coombs, R
Consultancy to HMGCC (in association with Robertson Cooper Ltd), Spring, 2002

Howells, J
Research and advice to HM Treasury, 2002

Howells, J
Research and advice to DTI, 2002

McMeekin, A
“Genomics and the ESRC Thematic Priorities: Scoping the Genomics Scenarios Task” for the IAF/CRIC ESRC Genomics Scenarios Exercise, January 2002.

Randles, S
Session moderator/discussant for PREST’s FOREN concluding conference, Dublin, December 13, 2001

B6: Conference Papers

Bryce, J & Rutter, J
‘Killing Like a Girl: Gendered Gaming and Girl Gamers’ Visibility’, Computer Games and Digital Textualities, Tampere, June 2002.

Bryce, J & Rutter, J
‘Psychological and Sociological Connections Between ‘Virtual Reality’ and the Trade in Fakes’, invited speaker, Anti-Counterfeiting Group Conference, Edinburgh, 2002.

Coombs, R
‘Distributed Innovation and Modes of Competition’ presentation at EPSRC International Workshop organised by Prof. Graham Winch, Civil Engineering, November, 2001

Green, K, Harvey, M and McMeekin, A
‘Transformations in Food Consumption and Production Systems’, paper presented to the Open Meeting of the Human Dimensions of Global Environmental Change Research Community, Rio de Janeiro, Brazil (2001)

Harvey, M & Randles, S
‘Market exchanges and “instituted economic process:” an analytical perspective’. Joint workshop with CNRS Centre d’Economie, IIDE, University of Paris Nord, ‘The Market and the Organisation of Exchanges, November 2001.

Harvey, M, McMeekin, A, Randles, S, Southerton, D, Tether, B & Warde, A,
‘Economic production and cultural consumption?: some theoretical considerations’, ETE workshop, Max-Planck-Institute for Research into Economic Systems, Jena, 1 March 2002.

Harvey, M & McMeekin, A
‘Bioinformatics and the formation of knowledge markets’, joint workshop with CNRS Centre d’Economie, IIDE, University of Paris Nord, ‘The Market and the Organisation of Exchanges, November 2001,

Harvey, M & McMeekin, A

'Brazilian genomics and bioinformatics: instituting innovation processes in a global context', International Conference, Frontiers and Trends of Development: Innovation Research and Policy. Rio de Janeiro, 25-27 September 2002.

Howells, J, James, A & Malik, K

'The Sourcing of Technological Knowledge: distributed innovation processes and dynamic change' at 'Strategic Over the Horizon' Conference, Saïd Business School, University of Oxford, 18/19 March, 2002.

Howells, J

'Encapsulation and service innovation within an international arena' at 'International Technology and Services' ESRC CRIC Workshop, Manchester, 1 – 3 October, 2001

Howells, J

'Knowledge, Innovation and People: A Capabilities Perspective' TTI International Conference, Birmingham International Conference Centre, Birmingham, 10-12 July 2002

Howells, J

'Knowledge, Innovation and Demand: Opportunities for Urban and Regional Systems' CURDS 25th Anniversary Conference Cities and Regions in the 21st Century University of Newcastle Upon Tyne, Newcastle Upon Tyne, 16-18 September 2002

Howells, J

'Innovation, consumption and services: encapsulation and the combinatorial role of services' paper presented 'Services and Innovation', 22nd International RESER Conference, 26-27 September 2002

McMeekin, A

'Market research and market formation: Professionalisation, institutionalisation, structure and dynamics', presented at IIDE-CEPN/CRIC Workshop on The Market and the Organisation of Exchange, 2001.

Metcalfe, J, S, Ramlogan, R & Uyarra, E

'Economic Development and the Competitive Process', Presented at CRC Workshop, Regulation, Competition and Development: Setting a New Agenda, IDPM, University Manchester, 4-6 September 2002.

Metcalfe, J,S, Foster, J, Ramlogan, R

'Restless Capitalism Increasing Returns and Growth in Evolutionary Enterprise Economies', Organisational and technological transformations in complex adaptive systems: concepts, methods of analysis and measurement. Brisbane Club Conference, Manchester, July, 2002.

Metcalfe, J, S

'Restless Capitalism and Endogenous Growth', keynote address to the Association of Australian Economists Annual Conference at the University of Western Australia, September 24, 2001

Metcalfe, J, S

'Restless Capitalism and Enterprise Economies', invited plenary address to The Association of Brazilian Economists' meeting in Salvador, December 2001

Metcalfe, J, S

'On Growth as an Adaptive Process', the International Schumpeter Conference, Florida, March 27 – 30, 2002

Metcalfe, J, S, Ramlogan, R & Uyarra, E

'Economic Development and the Competitive Process', CRC Workshop, University of Manchester, September 4 – 6, 2002

McMeekin, A, Harvey, M & Gee, S

'Emergent bioinformatics and newly distributed innovation processes', the Economics and Business of Bio-Sciences & Bio-Technologies: What can be learnt from the Nordic countries and the UK?, International Conference, Gothenburg, 25-27 September 2002.

Miles, I

'Scenario Analysis and Foresight', Hungarian Technology Foresight Programme conference, Budapest, May 2001.

Miles, I

Foresight and Scenarios, DG Research "Foresight to Scenarios – Landscaping Methodology and Tools" workshop 5th July 2002, EFTA, Brussels

Miles, I

Does the New Economy demand New Statistics? Royal Statistical Society Annual Conference, Plymouth, September 2002.

Miles, I

eCRM and Services *E-CRM (electronic customer relationship management) conference, Helsinki University of Technology, Espoo, Finland, March 12-14, 2002.

Randles, S & Tether, B

'International, Technologies and Services' Workshop, 'Scale, Reach and Structures of Internationalisation: A Survey of Environmental Technologies and Services firms, October 1-3, 2001.

Randles, S

'Forum Europeen de Prospective Régionale et Locale', 'Geographies of Collective Reflexivity': Thinking futures, doing urban governance and Influencing Economic Development in Manchester and Lyon,, OIPR, Lille, France, December 18-19, 2001.

Miles, I Harvey, M, and McMeekin, A.

'Genomics and the ESRC Thematic Priorities: Scoping the Genomics Scenarios Task', ESRC Genomics Scenario Workshop, January 15-16, 2002.

Randles S, McMeekin A Warde A

'The Making of a KIS: The Professionalisation and Industrialisation of Market Research' RESER Conference on Innovation and Services, University of Manchester, October 2002.

Rutter, J

'Trust Interactions in E-commerce Transactions', Ethnomethodology – A Critical Celebration, Essex University, March, 2002.

Rutter, J

'How Can We Trust the Ghost in the Machine? New Users, Shopping and E-commerce', University of York, May 21, 2002.

Rutter, J & Smith, G.W.H

'Ethnographic presence in nebulous settings: a case study' ESRC Virtual Methods Seminar, April 19, 2002.

Southerton, D

'Ordinary Consumption: changing and static traditions of kitchens'. Transforming Traditions Conference, Durham University, January 4-6, 2001.

Southerton, D

'Feeling Harried – hot spots, social networks and scheduling practices'. BSA Annual Conference, Manchester University, April, 2001.

Southerton, D

'Scheduling Practices and Coordinating Networks: the challenges of everyday temporalities'. European Sociological Association Conference, Helsinki, Finland, August 28-31, 2001.

Southerton, D & Martens, L

'Consuming children and the commercialisation of childhood'. European Sociological Association Conference, Helsinki, Finland, August 28-31, 2001.

Southerton, D

'Squeezing Time: allocating practices, coordinating networks and scheduling society'. International Conference on Spacing and Timing, Palermo, Sicily, November, 2001.

Southerton, D & Tomlinson, M (2002)

'Pressed for Time' – mechanisms, contexts and multiple experiences of temporalities'. International Association of Time Use Research, Lisbon, Portugal, October 2002.

Southerton, D (2002)

'Consumption orientations and experiences of time: an exploration of economic and cultural capital in relation to the temporalities of practices'. European Sociological Association's Research Network on Consumption, Bergen, Norway, August 2002.

Southerton, D (2002)

'Orientations towards social practices: the difference that spontaneity, routine, convention and convenience make to feeling harried'. British Sociological Association Annual Conference, April 2002.

Southerton, D & Warde, A

'Exploring Concepts of Lifestyle and Choice and in the Sociology of Consumption, 'European Science Foundation's Workshop 'Infrastructures of Consumption and Environmental Sustainability, Wageningen University, November, 2000.

Southerton, D

'Investigating childhood and consumption: some conceptual gaps and theoretical problems'. to BSA

workshop on 'Consumption, Lifecourse and Generation'. Durham, June, 2001

Tampubolon, G, Ray, K, Tomlinson, M, Longhurst, B, Savage, M & Warde, A
Participation and social movements in the UK: an analysis of networks, BSA annual conference, Leicester, 27 March 2002.

Tampubolon, G, Ray, K, Tomlinson, M, Longhurst, B, Savage, M & Warde, A
Participation and social movements in the UK: an analysis of networks, PSA annual conference, Aberdeen, April 2002.

Tampubolon, G & Ramlogan, R
'Technology and Trade Dynamics in Asia and Latin America', International Conference on Science Technology and Innovation .Harvard University, Massachusetts, 2002.

Tether, B.S
'How Internationalised are Services? – and how does this relate to Innovation?' CRIC Workshop on Services and Internationalisation Manchester 1 – 3 October 2001.

Tether, B.S
'Services and Systems of Innovation'. DRUID (Danish Research Unit for Industrial Dynamics) PhD Winter Conference, Aalborg, Denmark. 17 – 19 January 2002.

Tomlinson, M
'Measuring Competence and Knowledge using Employee Surveys: Evidence using the British Skills Survey of 1997', DRUID Summer Conference, Copenhagen, 6-8th June 2002.

Warde, A
Keynote speech, 'Sociology and the Study of Hospitality' Council for Hospitality Management Education 11th Research Conference, Leeds Metropolitan University, 3 April 2002.

Warde, A
'Themes and challenges in consumer research', keynote speech, Annual Conference of Danish Consumer Agency (EMFU), Copenhagen, 21 November 2001.

Warde, A
'Continuity and change in British restaurants, 1951 – 2001', 7th colloquium ICREFH, Alden Biesen, Belgium, 10 – 14 October 2001.

Warde, A, Randles, S, McMeekin, A (2001)
'Professionalisation and Institutionalisation: History, Structure and Dynamics in Emergence of Markets for Market Research' paper presented at CNRS Centre D'Economie, IIDE, University of Paris Nord, 'The Market and the Organisation of Exchanges', November.

Warde, A, Southerton, D & Tomlinson, M (2002)
'Theories of practice and consumption: prelude to an investigation of the diffusion of consumer cultures'. European Sociological Association's Research Network on Consumption, Bergen, Norway, August 2002.

B7: Media: Newspapers

Harvey, M

Article 'Construction Industry (Self-Employment)' House of Commons Hansard Debates, 28th November 2001

Harvey, M

Special feature 'Undermining Construction' Morning Star, November 2001.

Harvey, M

Report 'Undermining Construction' Construction Manager, November 2001

Harvey, M

Report 'Undermining Construction' Accounting web, November 2001

Harvey, M

Article 'Inland Revenue in tax scandal' Guardian Unlimited, 19th November 2001

Harvey, M

Article 'Taxman ignores builders tax dodge' BBC News Online, 19th November 2001

Harvey, M

Article 'Time to stop tax shambles' Construction News, 28th February 2002

Harvey, M

Interview with Pesquisa, leading Brazilian science journal, on the development of Brazilian genomics, 19 September, 2002.

Randles, S & Tether, B

Article 'Understanding International Markets for Environmental Technologies: Issues for the North West', Manchester Evening News, special supplement "Sustainable North West" 22nd August 2002.

Rutter, J

'Laughter? It's a funny business' The Daily Telegraph, 13th March 2002

Rutter, J

'Computer crack funnier than many human jokes', The New Scientist, 20th December 2001

Southerton, D & Warde, A

'Fun, frolics and field studies', review of Southerton et al (2001) 'The Social Worlds of Caravanning: Objects, Scripts and Practices', The Times Higher, 29th March 2002

B8: Media: Radio and Television

Harvey, M

Interview on BBC Radio 4 Today, 'Undermining Construction', November 2001

Harvey, M

Interview on Danish Radio 1, 'False self-employment in UK construction industry', 26th February 2002

Metcalfe J S

The Future of the Brazilian Economy interview and discussion. GLOBO TV, Brazil

Rutter, J

Radio Belfast on 'National Slacker Day 3', August 2002.

Rutter, J

Radio Cambridgeshire on humour and gender, August 2002.

Rutter, J

Milton Keynes Radio on Perrier Awards, August 2002.

Rutter, J

Three Counties Radio on humour, February and August 2002.

Southerton, D

Interview on BBC Radio Lancashire, talk show entitled, "Family meals and family relationships", January 22, 2002.

B9: Seminars and Lectures

Bryce, J & Rutter, J

'Computer Gaming and the Technological Transformation of Leisure', Bloc Seminar: Gaming, Pembrokeshire Business Initiative, Pembrokeshire.

Coombs, R

'The Fuzzy Front End: Concept Generation and Evaluation' invited lecture at Pilkington Research Centre, Lathom, Lancashire, November, 2001

Coombs, R

'Sources of Competitive Advantage for Smaller Countries in Knowledge Intensive Industries: Lessons from Biotechnology', invited UMIST lecture delivered at Singapore Polytechnic, January, 2002

Coombs, R

'Are we getting any better at managing innovation: and how would we know?', seminar at Science Policy Research Unit, Sussex University, February, 2002

Coombs, R

'The Impact of Innovation on the Company', presentation at one day conference on innovation organised by Smith and Nephew Woundcare Division, York, April, 2002

Harvey, M and McMeekin, A,

'Bioinformatics and Economies of Knowledge', GEOPI, Campinas University, Brazil. 2001

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Harvey, M and McMeekin, A,

'Bioinformatics and Economies of Knowledge', Federal University of Rio de Janeiro, Brazil. 2001

Harvey, M, Warde, A & McMeekin, A

'Qualities of Food: Alternative theoretical and empirical approaches', University of Manchester 10 – 11 January 2002

Howells J

'Strategic Over the Horizon' Conference, World Strategy Conference SAID Business School, University of Oxford, 18-19 March 2002.

Howells J

'International Technology and Service' ESRC CRIC Workshop, Manchester 1-3 October 2001.

Howells J

'Cities and Regions in the 21st Century' CURDS 25th Anniversary Conference, University of Newcastle upon Tyne, 16-18 September 2002.

Howells J

'Services and Innovation' 22nd International RESER Conference, Manchester, 26-27 September 2002.

Howells, J

'Know-How', Project workshop, Chancellors, University of Manchester, April, 2002.

Metcalfe, J, S

'Innovation Systems and Innovation Policy', presented to a group from the Queensland Treasury, The Department of Industry and the Innovation Council of Queensland, September 13, 2001

Metcalfe, J, S

'Growth of Knowledge and Knowledge of Growth', presented at workshop on the Economics of Globalisation, Curtin University, Australia, September 21 – 23, 2001

Metcalfe, J, S

'The Market and the Organisation of Exchanges', workshop at IIDE-CEPN, Universite, Paris, November 19 – 21, 2001

Metcalfe, J, S

'On the Self Transformation on Economies', ETE Workshop MPI, Jena, February 28, 2002

Metcalfe, J, S

'Adaptive Economic Growth', Seminar, ECIS, Eindhoven, November 6, 2002

Miles, I

'Genomics and Social Science Priorities', speaker and facilitator for ESRC, January 16/17th, 2002.

Miles, I

'Knowledge Society', participant, presenter at European Foundation for the Improvement of Living and Working Conditions, Dublin, Ireland, December 2001

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Miles, I

'Knowledge Society', participant, presenter at European Foundation for the Improvement of Living and Working Conditions, 6 – 7th March, 2002

Miles, I

'Knowledge Society', participant, presenter at European Foundation for the Improvement of Living and Working Conditions, 27/28th March, 2002.

Miles, I

ESTO general Assembly, presenter, Seville, 7/8th February, 2002.

Miles, I

E –CRM Conference, invited speaker, Espoo, Finland, 12 – 14th March, 2002.

Miles, I

'Innovation Policy and Regulatory Reform', Barcelona, 11/12th March, 2002.

Miles, I

'Practical Guide to Regional Foresight v2' presentation to expert group, Brussels, 30th April, 2002.

Miles, I

Knowledge Intensive Business Services, guest lecture at University of Hohenheim, Germany, 11/12th April, 2002

Miles, I

'Foresight and Scenarios', presented lecture to PREST Foresight workshop, Manchester, May, 2002.

Miles, I

'Foresight and Scenarios' to international workshop, Brussels, 8th July, 2002.

Miles, I

Presented paper, discussant of Dphil projects, at Postgraduate Summer School organised by Roskilde University, Denmark, on theme of Innovation in Services, May 3-5, 2001

Moncel, N

Presented paper 'L'impact des politiques d'emploi sur la socialisation des ressources des travailleurs dans cinq pays européens' presented at Communication aux 8èmes Journées de Sociologie du Travail Aix-en-Provence, 21st June 2001.

Ramlogan, R & Randles, S

'Complexity Old, Complexity New' NEXSUS Workshop, April, 2001

Ramlogan, R & Metcalfe, J.S

'Between Command and Chaos: The NHS as a complex system', NEXSUS Workshop, April, 2002

Ramlogan, R

'Do networks really work?' prepared for Losehill, NEXSUS Workshop, October, 2001

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Ramlogan, R & Brown, T

'The dynamics of the competitive process: Simulation Results', NEXSUS Workshop, Metcalfe, J.S (2002), October, 2001

Ramlogan, R

Brisbane Workshop, July 2002.

Ramlogan, R

Centre for Regulation and Competition workshop, September 2002.

Rutter, J

'Routinising Trust in E-commerce Interactions', Everyday Consumption of Technology, University of Manchester

Rutter, J

ESRC Virtual Methods Seminar, Brunel University, 17-18 December, 2001

Rutter, J

Everyday Consumption of Technology, University of Manchester, 6th February, 2002.

Rutter, J

Ethnomethodology A Critical Celebration, University of Essex, 20 – 22nd March, 2002.

Rutter, J

'Playing with the future: Development and Directions in Computer Gaming' University of Manchester, 5-7 April, 2002.

Rutter, J & Smith, G.W.H

'Ethnographic presence in nebulous settings: a new case study' ESRC Virtual Methods Seminar, Brunel University, 19th April, 2002.

Rutter, J

'How Can We Trust the Ghost in the Machine? New Users, Shopping and E-commerce', University of York, 21st May 2002.

Rutter, J

Computer Games and Digital Cultures, University of Tampere, Finland, 6 – 8th June, 2002

Rutter, J

Computer Games and Films: Convergence of Technologies – Convergence of Audiences?, Kino Film Festival, Manchester. November 2001

Southerton, D

'Time, Space and the ordering of social practices'. to the European Science Foundation Summer School, 'Consumption, Everyday Life and Sustainability', Lancaster University, July, 2001.

Southerton, D

'Squeezing Time and scheduling Society'. Paper presented to CRIC Workshop 'Researching Time', Manchester University, October, 2001.

Southerton, D

'Comments on What Sociology offers to the study of consumption, history and technology'. European Science Foundation Workshop, 'Mediating Technology', Munich, December, 2001.

Southerton, D (2001)

'Connections: the Sociology of Consumption, History and Technology'. European Science Foundation Workshop, 'Mediating Technology', Munich, Germany, December 2001.

Southerton, D (2001)

Organized one day CRIC workshop 'Researching Time', September 2001.

Tether, B.S

CRIC Workshop on Services and Internationalisation, Princess Hotel, Manchester, UK, 1 – 3 October 2001.

Tether, B.S

Design Research Partnership Meeting, Polytechnico di Milano, Milan, Italy, 21 – 25 January 2002.

Tether, B.S

DRUID (Danish Research Unit for Industrial Dynamics) PhD Winter Conference, Aalborg, Denmark, 17 – 19 January 2002.

Tether, B.S

12th International RESER Conference – on 'Services and Innovation', Institute of Innovation Research, Manchester, 26th – 27th September, 2002.

Tomlinson, M

LOCNIS workshop: Knowledge Management and Governance within the Firm: Paris 19.20th April, 2002.

Tomlinson, M

ENMOB workshop: European Network on Mobility, CEREQ, Marseille, France, 23.24th May, 2002.

Warde, A Randles, S, and McMeekin, A, (2001)

'Market research and market formation: Professionalisation, Institutionalisation, structure and dynamics', presented at IIDE-CEPN/CRIC workshop on the Market and Organisation of Exchange.

Warde, A

On the use of consumption, University of Edinburgh, School of Management, 22 February 2002

Warde, A

'Sociologies of consumption', Dept of Sociology, University of Birmingham, 23 October 2001

B10: International Collaborative Research Projects Participated in by Centre

Harvey, M

TSER Research Network, The Social Construction of Employment in Europe

Harvey, M

Research Project, RESORE, on the 'Employee's resources and social rights in Europe'.

Harvey, M and McMeekin, A.

Research collaborative agreement between CRIC and GEOPI, University of Campinas, Brazil.

Howells, J

Patents and Services Project EU.

Howells J

Innovation and Services Project EU

Howells J

Member of an EC Benchmarking Group

Howells J

Member of an EC European Enlargement Group

McMeekin, A

Formal research collaboration established with GEOPI at the University of Campinas, Brazil on Bioinformatics.

Metcalf J S

Visiting Professor at University of Queensland, Australia

Miles, I

PREST team leader for FISTERA – Foresight on IST in European Research Area

Miles, I

Member of EC Benchmarking Group examining RTD Policy

Miles, I

Presentation of paper "KIBS revisited" to Nijmegen lecture series on Innovation, Nijmegen, Netherlands, February 15, 2001.

Miles, I

CRIC team leader for project (coordinated by ISI in Karlsruhe) on "Services and Patents" for EC

Miles, I

PREST team leader for FUTMAN study (industrial ecology) for EC.

Miles, I

PREST team leader for "Innovation Policy and the Regulatory Restructuring" project for EC.

Miles, I

PREST team leader for projects on European Knowledge Society Foresight for the European Foundation, Dublin.

Ramlogan, R & Metcalfe, J, S

Collaboration in the International Project, 'The Uneven Growth of Medical Knowledge', coordinated by Professor R Nelson at Columbia University.

Southerton D

Member of European Science Foundations Research Network 'Mediating Technology' 2001-2

Tether, B.S

Member of an international working group studying the changing role of and design consultancies in the innovation process. Other members of the group include, Professor Jim Utterback of the MIT (US), Professor Susan Sanderson of Rensselaer Polytechnic Institute (US), Professor Roberto Verganti of the Politecnico di Milano, (Italy) and Professors Sten Ekman and Bengt-Arne Vedin both of Mälardalen University (Sweden)

Tomlinson, M

The LOCNIS Project (European Commission)

The project is led by B-A Lundvall at Aalborg University and Edward Lorenz at the Institute for Labour Studies (Paris).

Tomlinson, M

The ENMOB project (European Commission thematic network)

Anders Ekeland at STEP, Oslo, which is an international network funded by the EC to promote work on mobility in and between economic systems which started out as the OECD group for mobility research.

Tomlinson, M

'The economics of knowledge and the public dimensions of the knowledge driven economy'. A project run at OECD/CERI by Paul David (All Souls), Dominique Foray (OECD) and Jacques Mairesse.(INSEE-CREST, Paris)

Tomlinson, M

Visiting Professor (twice) to the University of Aalborg, Denmark

Warde, A & Harvey, M

Consumer Trust in Food: a European study of the social and institutional conditions for the production of trust, EC Framework V, UK partner.

B11: Conferences Attended

Howells, J

'Strategy Over the Horizon' Conference, World Strategy Conference, said Business School, University of Oxford, 18/19 March, 2002.

Howells, J

'Internationalisation, Technology and Services' ESRC CRIC workshop, Manchester, 1 – 3 October, 2001

Ramlogan, R

Innovation Conference. University of Hull, June 2002

Ramlogan, R
Complexity Society Conference, Cranfield University, November 2002

Randles, S
The 'Earth Dialogues' Forum: 'Globalisation and Sustainable Development', Lyon, 21 –23 February 2002.

Rutter, J
Anti-Counterfeiting Group Conference, Edinburgh, invited speaker, October 2002.

Rutter, J
Computer Games and Digital Cultures, University of Tampere, Finland, June 2002.

Rutter, J
Department of Psychology Seminar Series, University of York, 21st May 2002.

Rutter, J
ESRC Virtual Methods Seminar, Brunel University, invited speaker, 19th April 2002.

Rutter, J
Playing with the Future: Development and Directions in Computer Gaming, University of Manchester, organiser, 5 – 7th April 2002.

Rutter, J
Ethnomethodology A Critical Celebration, University of Essex, March 2002.

Warde, A
Annual conference of Danish Consumer Agency (EMFU), Copenhagen, 21 November 2001.

Warde, A
BSA annual conference, Leicester, 2002.

B12: Other

Policy Impact

Harvey, M
House of Commons Adjournment Debate, on the report Undermining Construction. Hansard Column 272WH. 20 pages, 28th September 2002.

Harvey, M
Workshop at the Union of Construction Allied Trades and Technicians, National Delegates Conference, 24th June 2002.

Harvey, M
Awarded Honorary Life Membership of the Union of Construction Allied Trades and Technicians, first award of its kind, 24th June 2002.

C: Financial Resources

C1: Annual Grant from Centre's Board

£334599.11

C2: Other ESRC Funding

Harvey, M & McMeekin, A
Bioinformatics and economies of knowledge project £45,280

Howells J
ESRC Grant on Commercialisation of Research and Intellectual Property
with (CERAM) £21546

McMeekin, A, Metcalfe, J.S, James, A and Ramlogan, R
ESRC IHT £174000

McMeekin, A, Miles, I and Harvey, M
ESRC Genomics Scenario Exercise (with IAF) £11494.00

Southerton, D, Shove, E & Warde, A
'Sustainable Domestic Technologies: changing practice, technology and convention'. Research grant
awarded under the ESRC Sustainable Technologies Research Programme, £117204.00

Indicator C3: Other Funding from Host Institution

Tether, B.S
(£2,000 – support funding) Manchester Federal School Research Collaborations Fund – for a
collaboration with Prof. Peter Swann (Manchester Business School) on 'Allocating Airtime' –
auctions and the allocation of radio spectrum an airport slots.

Professor Metcalfe 80%
Professor Coombs 50%
Professor Howells 50%
Professor Miles 30%
Professor Warde 50%

Indicator C4: Other Research and Consultancy Funding

Harvey, M & McMeekin, A
DTI. UK Bioinformatics Workshop, £9,850.

Harvey, M
EC project on Rights over social resources, RESORE, €72600 over three years, awarded July 2002,
commencing January 2003.

Harvey, M & Warde. A
EC Trust in Food, CRIC £204348

Howells, J, Tether B

Innovation in Service: Issue at Stake and Trends' INNO-Studies 2001 (ENTE-C/2001), Studies on Innovation Matters Related to the Implementation of the Community "Innovation and SME's Programme", Commission of the European Communities, Luxembourg. £121017

Randles, S

2001, PREST's Foren concluding conference, Dublin, £300.

Ruter, J

MGAIN: Mobile Entertainment Industry & Culture, European Commission, IST 2002 Accompanying Measures, February 2002. £102673.

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