

**"INTEGRATION OF EUROPEAN EQUITY
MARKETS: IMPLICATIONS OF STRUCTURAL
CHANGE FOR KEY MARKET PARTICIPANTS TO
AND BEYOND 1992"**

by

Gabriel HAWAWINI*

and

Eric RAJENDRA**

N° 90/06/FIN/EP

- * Yamaichi Professor of Finance, Euro-Asia Centre, INSEAD,
Boulevard de Constance, Fontainebleau 77305, France
- ** Research Associate (on leave from McKinsey & Company, Brussels),
INSEAD, Boulevard de Constance, Fontainebleau 77305, France

Printed at INSEAD,
Fontainebleau, France

INTEGRATION OF EUROPEAN EQUITY MARKETS:
IMPLICATIONS OF STRUCTURAL CHANGE FOR KEY
MARKET PARTICIPANTS TO AND BEYOND 1992

Gabriel HAWAWINI*
and
Eric RAJENDRA**

December 1989

* Gabriel HAWAWINI is Yamaichi Professor of Finance, Director of the Euro-Asia Centre and Associate Dean of INSEAD (the European Institute of Business Administration). His fields of research includes the future of European financial markets and institutions, international capital flows and portfolio management.

** Eric RAJENDRA is an Engagement Manager at McKinsey & Company (Europe) and is currently on leave of absence to undertake research at INSEAD in the field of European financial services industry.

INTEGRATION OF EUROPEAN EQUITY MARKETS:
IMPLICATIONS OF STRUCTURAL CHANGE FOR KEY
MARKET PARTICIPANTS TO AND BEYOND 1992

Gabriel HAWAWINI
and
Eric RAJENDRA

I. INTRODUCTION

Despite significant historic inter-European economic linkages, the single most striking feature of Europe's stock markets, taken as a whole, is their diversity: in size, structure, regulation, taxation, trading practices, and operational efficiency. While the EEC's legislative efforts should remove some of these differences through harmonization of various standards, certain market peculiarities may undoubtedly continue to remain.

This diversity, however, can be characterized as both a strength and a weakness. The strength resides in the opportunity for individual European markets to specialize in the delivery of particular products and services. The weakness lies both in the possible inability of European markets to play a unified and significant role in the global

equity market and in the obstacles that this diversity could impose on the very integration process fostered by the EEC.

What does an aerial photograph of European equity markets present to the viewer? What may the same photo look like by the middle 1990s? What features should be likely to change and what factors seem to drive those changes? If the viewer is one of the key equity participants, what implications should he draw for his own strategy for the coming decade?

In answering these critical questions, we examine first, in Section II, the evolving market structures and dynamics of European equity markets and evaluate the on-going initiatives of the EEC for creating an integrated securities market by year-end 1992. Section III presents, in the form of a prognosis, the various possible implications of the above discussed trends in European equity markets, for key market participants, namely, stock exchanges, financial intermediaries, and retail and institutional investors.

II. EVOLUTION OF EQUITY MARKET STRUCTURES AND DYNAMICS

With the notable exception of the U.K., European equity markets have historically assumed a secondary role in private sector financing in comparison to the bond and bank

debt markets. A fragmented market structure kept nearly all Continental equity markets rather emaciated and country bound. This somewhat stagnant and lackluster situation has been rapidly evolving over the 1980s. And certain projected developments should further invigorate European equity markets by accelerating two mutually reinforcing processes: individual market modernization and innovation on the one hand, and European financial integration on the other. But what are these beneficial factors that are causing this clear change in market structures and dynamics?

Up to the middle 1980s, two discernable factors of change appear to have affected individual European equity markets: the world-wide advances in technology and telecommunications applications in most areas of the securities industry, and competition among key European financial centers in vying for a role as the European "link" in the increasingly global issuance and trading of securities.

Over the past five years, these factors mingled with five other key "drivers" which appear to have emerged, some of which were spurred in varying degrees by the EEC initiatives in the securities field: 1) the increased liberalization and modernization of stock exchanges, 2) the growing use of equity funding as an efficient financing alternative, 3) the expanding scope of financial

intermediary activity, 4) the continuing development of equity-linked derivatives and 5) the rising importance of European institutional investors. Let's examine these interlinked factors.

1. Liberalization And Modernization Of Stock Exchanges.

Continental exchanges were traditionally characterized by cumbersome listing and disclosure requirements, armchair trading practices, and inefficient clearing and settlement systems. Over the past few years, various national "self-reforms" have begun, especially in major Continental markets (West Germany, France, and the Netherlands). These reforms could be termed as a competitive reaction to the rapid liberalization and modernization efforts of London, New York, and Tokyo and a growing fear among Continental exchanges that once an "intangible" market consolidates itself in one location the competitive lead-time of that location will be hard to recapture in a market characterized by rapid technological evolution.¹

The major exchanges now have, or are working towards, relaxed listing/disclosure requirements for firms and membership requirements for brokers/dealers. The exchanges are also promoting the application of technology in trading (especially in block trading) and in clearing and settlement procedures, replacing fixed with negotiable commissions for

transactions, and establishing various equity-related derivative markets to expand their scope of activities.

2. Growing Use Of Equity Financing Alternative.

Traditionally relegated to a step-sister role vis-à-vis bond and debt funding vehicles, equity funding has emerged recently as a viable alternative for corporate financing. And while in the past debt markets tended to crowd out or dominate new issuance in capital markets, there are indications that the future may see the co-existence of both forms of financing. For example, during the three-year period 1985-87, new issuance of domestic equity has more than doubled (from ECU 25 billion to ECU 64 billion) and new issuance of Euro-equities, that is, shares issued in the Euromarkets, has more than tripled (from ECU 3 billion to ECU 10 billion)².

Several reasons can be identified for this trend.

(1) Many governments are undertaking privatization programs in order to liberalize the economy and raise capital. These efforts have been assisted by buoyant stock markets over the past decade. Between 1985 and 1987, approximately ECU 35 billion was raised in Europe from the sale of shares in public sector corporations.

(2) The restructuring of European industries is on the increase and has spawned numerous spin-offs, recapitalizations, equity market floatations of leveraged buy-outs and the like. Preparations for 1992 are expected to further encourage such activity. In addition, the demand side is being reinforced by increasing pools of institutional equity capital looking for higher returns often via investments in the once neglected "mezzanine" and equity components in structured transactions.³

(3) The liberalization of listing and disclosure requirements mentioned earlier is tempting many companies, especially in the upper-end of the middle market, to diversify their liabilities away from a dependence on their traditional banks. This nascent trend towards increased use of equity financing is likely to be aided by specialized financial intermediaries focusing on this higher margin customer segment (vis-à-vis the large corporate market).⁴

(4) Universal banks after 1992 may be restricted, by EEC legislation under proposal, as to the amount of shares of any particular company they can hold; off-loading of such paper may accelerate in the next few years to comply with the likelihood of the approval of these requirements and hence may promote secondary market liquidity.⁵ In fact, in some countries, as Germany, where banks have held on to major quantities of corporate shares for decades, this

off-loading process can in some ways be construed as a form of privatization.

3. The Expanding Scope Of Intermediary Activity.

One of the prime reasons for the traditional lack of liquidity in most Continental exchanges has been due to regulations that have prevented intermediaries both from trading and positioning shares for their own account and engaging in market making activities. In turn, this created little incentive for these intermediaries to be well-capitalized to cope with positioning risk.

Two factors are working to change this situation: (a) competition from London is forcing many Continental exchanges to review their prior stance of "investor protection" as the ostensible reason for prohibiting own-book trading/positioning and (b) the proposed EEC directive on investment services which, in essence, should enable universal banking (allowing brokers and dealers to offer their services freely across Europe and be supervised under their home country regulations). As these factors materialize, the role of European equity market intermediaries should evolve towards the U.K., U.S., or Japanese models.

4. The Development Of Equity-Linked Derivatives.

The traditionally fragmented nature of Continental equity markets, coupled with a dearth of innovative financial intermediaries, limited the development of equity-linked derivative products. Most underlying equity markets had poor liquidity, few investors were sufficiently sophisticated to demand "finer" tools in portfolio management, and in certain countries the regulatory authorities perceived little difference between gambling and financial futures and options.

As major Continental centers began to vie with London in serving as a "global link" in securities markets, the innovation, structuring, trading, and consequent market-making in derivative products came to be viewed as a means of building competitive advantage. While London may currently be ahead of other European centers in terms of the level of activity (with its London Traded Options Market and London International Financial Futures Exchange), Paris (with its Marché à Terme International de France and Marché des Options Négociables de Paris), Amsterdam (with its European Options Exchange) and Frankfurt (with its over-the-counter stock option market) are all vigourously trying to retrieve some of the business that had earlier drifted to London.⁶

5. Rising Importance of European Institutional Investors.

Various factors are converging to boost the role played by European institutional investors. These factors are expected substantially to change the concept of portfolio management from a traditionally passive buy-and-hold strategy of top-notch paper (typically bond paper) to one that is popularly referred to as "dynamic asset allocation" on a pan-European scale. In addition to the improvement in Continental equity market structures--which should provide a more efficient arena for institutional investors--two further key reasons can be identified.

First, pension plans in most European countries are increasingly shifting from a redistribution system to a capitalization system. In the former system, contributions made by current workers are immediately redistributed to current pensioners, whereas in the latter system, funds collected today are invested for future distribution according to certain investment criteria, many of which stipulate the possibility for equity investments.⁷

Second, the EEC directive on the free movement of capital, coupled with continued national deregulation in allowing institutional investors to increasingly place larger percentages of their assets abroad, should encourage these investors to seek risk-diversification opportunities through a wider range of investments throughout Europe.

In summary, these five interlinked factors are working at differing speed to revitalise and redefine the character, structure and dynamics of the European equity markets. In this light, the EEC's efforts in the field of securities markets may be viewed as further accelerating these competitive factors. Let's briefly review them.

Unlike the banking sector where indirect barriers (different standards in each country) are the biggest obstacle to pan-European offering of services, the securities field is also burdened with direct barriers. Exchange controls, while being phased out in most EEC countries, made multi-country portfolio investing extremely difficult. Numerous exchanges had (and many still do) regulations preventing foreigners from being licensed as brokers. In some countries (as Germany and Belgium) in order to offer just securities trading it used to be necessary to offer a full range of services. Insurance companies and pension funds in many countries are limited as to the amount of foreign securities they are allowed to hold. These various tangible barriers were on top of the numerous differences in practices and regulations in European securities markets that we discussed earlier.

The EEC directives in the securities sector attempt to create a level playing field for intermediaries and investors.⁸ A vast effort to define standards and harmonize practices is currently underway. If successful, this effort will bring about a number of developments such as more efficient and standardized rules for: 1) admissions to exchanges, 2) listing of company particulars, 3) publication of prospectuses, 4) control of insider trading, 5) disclosures of major ownership changes, 6) regulatory scrutiny, in addition to, 7) enabling investors to purchase shares in mutual funds across Europe and, perhaps most importantly, 8) enabling intermediaries licensed in one EEC state to offer pan-European securities services without obtaining further approvals. In this sense, one can perhaps point to the Investment Services Directive as being the "mother directive" of the securities field, not unlike the Second Banking Directive applicable in the banking field and after which it is modeled.

It is likely that these directives, most of which concern "standardization" or "harmonization" of regulations and practices, will be approved in some form or another. There would be little vested interest for any one country to vigorously oppose, in theory, the creation of a level playing field. Nevertheless, the actual enforcement of some of these directives could prove to be a thorny problem.

For instance, in order to realize the disclosure of large shareholdings directive, honesty on the part of the shareholder will need to be relied upon in some countries (e.g., France and Germany have bearer securities cleared electronically). And the directive on insider trading, despite its efforts of defining "insider" will in all probability create monitoring nightmares. It is therefore likely that the EEC will need to create a strong-arm agency like the SEC in the U.S. with a mandate from the EEC for monitoring compliance across European equity markets. There may be strong opposition to such a move in certain countries (especially the U.K. which has long had a "self-discipline" philosophy).

III. IMPLICATIONS FOR KEY MARKET PARTICIPANTS

Capitalizing on these developments and opportunities will demand the formulation of new strategies and the acquisition of new skills for each of the three major groups of equity market participants: national stock exchanges, financial intermediaries, and retail and institutional investors.

For each group, surviving and prospering in the 1990s will mean undertaking a realistic assessment of the implications of these developments, both on a macro and micro level, in order to formulate new strategies or acquire

new skills. But this endeavor is not an easy one. And nor do the implications that may be drawn on the European or global level readily lend themselves to quick generalizations which are valid at all country levels and which in turn translate into "generic strategies" applicable to all members within any one group.

We noted above that the five interlinked factors of change are working at different speeds. This is especially evident on the country level where the "variability" of the impact of these factors is a function of national regulatory peculiarities and equity market practices which in turn create different local equity market environments when viewed from the European perspective.

The success of any individual institution within each group depends less on the concoction of "the one best strategy" or the rapid acquisition of "the latest skill". Rather what is needed is an ability to constantly gauge changing competitive factors in order to develop flexible and "evolvable" strategies that enable these institutions effectively to manage (and appropriately gain from) the rapid evolution in European equity markets. It is with this in mind that readers should evaluate the direct relevance, for their particular institutions, of the following macro implications.

1. National Stock Exchanges: Leveraging Comparative Advantages Under A Two-Tiered Market Structure.

Numerous factors indicate that the continuation of current developments in European equity markets should lead to the formation of a two-tiered market, with London playing a role as the "hub" center for Euro-equities issuance and trading and with the other major Continental exchanges serving as "satellite" centers of varying importance.

London's continued predominance appears to stem from four factors: (1) scale and scope of equity market activity, (2) established cross-linkages to bond, bank debt syndication, and foreign exchange markets, (3) early technology investments for effective data processing and trade execution and settlement and (4) the combination of the first three point which leads to London's competitive advantage in block-trading, in market-making, and importantly, in developing deeper and wider equity derivative markets.

In light of this situation, the following question is frequently raised: if major European corporations in the next decade, having "outgrown" their home markets, are advised by the financial intermediaries to issue (with subsequent trading of) their equities in London, what roles can be foreseen for Continental exchanges? Should they

attempt to duplicate London's role? Or, should they specialize and, if so, in what segments?

Trying to duplicate London's decades-long consolidated position would be a long, arduous, and most probably a futile effort. Some exchanges have hoped that by focusing on a line of equity derivative products, they would have a "back-door" means of recapturing London's business. Yet, it is hard to see how national exchanges can rely on this route alone to build a long-term, profitable, and viable strategy, especially if significant underlying activity for the upper-end of the market (the most likely type of shares for derivatives) resides in London.

We argue that the investments in technology and on-going self-regulation undertaken by Continental exchanges are beneficial and, in some cases, long overdue. But we also argue that Continental exchanges should not make them in the hope that major national corporate equity issuance and trading will tend to stay with home exchanges (or that the business that once drifted to London will soon flow back). Instead, such investments should be made in order to foster the development of an efficient arena for the listing, issuance, trading, and clearing/settlement of small to middle market corporate equity paper. The business of large, often multinational, corporate paper may hence be viewed as peripheral activity for Continental exchanges (in

their capacity as satellite centers for smaller trades and occasional "packaged trades").

In this sense, the realistic alternatives open to Continental exchanges are specialized in terms of "customer", rather than "product" segments (interestingly, this customer specialization role is not unlike that played by certain smaller U.S. exchanges which have tended to focus on regional start-ups and new issuance and trading of middle market companies). This double-tiering of European equity markets and consequent specialization for London and Continental exchanges implies different mind-sets and skills.

London will need to continue to foster a market that is conducive to larger corporate issuers, the major intermediaries that serve them, and the large institutional investors that frequently undertake massive block-trading. In this context, it is critical that the on-going debate within the ISE, as to the merits of the order-driven versus quote-driven systems (or some combination of the two) be resolved in a manner that does not dampen the attractiveness of London as an efficient pricing and trading center of large European corporate equities.⁹

Continental exchanges, while continuing to modernize and liberalize, will need increasingly to focus their

efforts on their "captive" market of small to middle market corporates, the national intermediaries that serve them, and the assorted group of predominantly national retail and institutional investors that are more likely to (and capable of) evaluating the investment risk of such small capitalization equities. Informational and operational efficiency are key market factors for enhancing liquidity in such equities. This implies that these exchanges may need to grant more flexible listing and disclosure regulations for such companies, the possibility of own-book positioning of such shares for intermediaries adequately capitalized, and more streamlined trade execution, and clearing and settlement systems to encourage investor interest and activity.

2. Financial Intermediaries: Deciding To Whom, What, Where, And How To Play In European Equity Markets.

The proposed EEC directive on investment services will enable a larger group of financial intermediaries to perform a wide range of securities activities across the twelve European capital markets. Increasingly, market practices and regulations will be harmonized throughout Europe. This environment will be dramatically different from that which now prevails, especially on the Continent, where brokers/dealers are a relatively protected group performing highly limited or specialized activities. Consequently, it

is critical for current intermediaries to choose their scope of activity and to decide what aspects of the business they intend to focus on. Only a handful (if any) can hope to be profitable providing all services, to all client segments, in each European capital market.

Intermediaries should first assess their own competitive advantages, to determine the "to whom", "what" and "where", before deciding on the "how" of achieving this goal. This results in a complex multi-dimensional matrix.

For instance, players choosing to target the upper-end of the corporate market will need to decide if they wish to focus on a few activities or provide a range of services from corporate finance, to new issuance, to market-making and own-book positioning (or simple broking), to equity market research for institutional investors. Do they wish to be, or need to be, pan European or can they focus on their home market? Then comes the "how": What financial and human resources are needed? Are strategic alliances or mergers or acquisitions necessary? Similarly, this entire group of questions can be raised for intermediaries choosing to focus on small to medium-sized companies.

It is possible that as European equity markets develop in the 1990s, two groups of intermediaries may evolve. One group may focus on the upper-end of the market (typically with a large market share in the home country) and have

significant representation in London for issuance, trading, and institutional investor services. The second group may concentrate more on the medium to low end of the market (acting almost entirely in the home market along with many other local intermediaries) and be linked to the first group for servicing those client needs best served via London. Each group may focus on equity research in its respective markets and share such research with the other group.

For most Continental equity brokers or dealers, two handicaps will need to be overcome over the next decade: a) limited capital bases and lack of market making, and b) own-book positioning skills.

The first factor will become critical, especially for those choosing the upper end of the market, in competing with well-capitalized universal banks. Much of the new activity in equity financing is expected to come from privatization programs and corporate restructurings. A player with "deep pockets" will have a definite advantage over one who argues that he can "eventually find buyers for the paper".

The second factor is the chicken-and-egg aspect of the first in many Continental equity markets. Regulation prevented own-book positioning for intermediaries (based on "investor protection" concerns) and hence intermediaries had

little incentive to capitalize themselves; thinly capitalized intermediaries confirmed the regulatory authorities fears of disrupted markets if own-book positioning were allowed. Even though proposed EEC regulations will permit positioning activities, Continental intermediaries may still be hampered by a traditional aversion to "Anglo-Saxon style" position-risk analysis even if such skills could be readily acquired.

3. Retail And Institutional Investors: Capturing Diversification Opportunities In An Integrated Equity Market.

Recent studies¹⁰ have revealed that during most of the 1980s, the monthly returns of European equity markets were either independent of each other or slightly positively related (this was found to be the case for both "raw" returns and returns adjusted for changes in exchange rates).¹¹ This phenomenon implies that diversification across European equity markets would have brought about significant risk-reduction benefits without a commensurate sacrifice in total returns.

Furthermore, these same studies also revealed that standard market indices (both equally-weighted and value-weighted) were not part of the efficient set of European portfolios (that is, the set of portfolios with

maximum return and minimum risk). Hence, dynamic asset allocation strategies across European equity markets could have enhanced return without increasing risk.

Can investors still rely on these diversification opportunities in a post-integration economic market? It is quite possible that European integration may result in significantly stronger interdependencies, over the next five to ten years, among major European equity market returns. And stronger interdependencies means less diversification gains. However, one could argue that any decline in diversification opportunities from a risk-reduction standpoint will be more than offset by certain key factors, such as increased operational and informational efficiency, and new opportunities in the form of "focused diversification". Let's examine this further.

Increased operational efficiency should lead to greater liquidity ("depth") in each major market as well as greater fluidity ("scope") across markets. In other words, as markets integrate, many of the current operational obstacles, such as clearing and settlement differences and inconsistencies, should diminish, encouraging more foreign listings and expanding the choice for investors.

In addition, focused diversification opportunities may arise as markets integrate. For instance, retail and

institutional investors could take an "industry sector", "company size", or "economic/geographic pockets" diversification approach on a Europe-wide basis, not unlike that available to investors in the integrated U.S. or Japanese markets.

Diversifying across European equity markets and managing portfolios on a dynamic asset allocation basis demands new skills on the part of most European retail and institutional investors, who for the most part have been pursuing a buy-and-hold strategy of high-grade national paper.

While information is readily available on the upper-end of the corporate market, until the day intermediaries link themselves effectively in providing "small cap research" and liquid trading, investors will need to "piece together" their own portfolios by dealing with multiple intermediaries, of differing quality, in each European capital market.

Dynamic asset allocation is a difficult proposition in one's home market and may turn out to be a nightmare of sorts on a European level for the unsuccessful investors. End-investors will increasingly demand higher returns, consistently, of their institutional fund managers and will be less hesitant than in the past to shift their assets

around. In response, fund managers will themselves carefully need to position their range of pan-European investment strategies in those areas where informational and operational efficiencies are optimal and conducive to their stated approaches.

SUMMARY

Despite its current fragmented character, European equity markets are showing clear signs of structural and operational integration. Competitive forces are at work across the various national markets and among all categories of participants.

Traditionally undynamic and protected national exchanges are being jolted by the realization that preparations for 1993 by other exchanges may leave them as stagnant backwaters of finance; they are self-liberalizing and modernizing as never before in their history.

Intermediaries, long used to a cosy existence of monopolistic service provision, are finally realizing that their home governments are opening their markets to foreign participants and that each basis point of even domestic commission income will have to be competed for on the basis of efficient service.

And retail and institutional investors, traditionally confined to passive investment strategies in high-rated paper within their home countries, are increasing in number, becoming more financially sophisticated, and are increasingly ready to cross borders to deal with intermediaries that offer the optimal price-value service on a wide range of pan European investments.

As these structures and dynamics evolve rapidly over the next decade, it is becoming more evident that the key market participants can no longer rely on sharpening their skills on old rules relevant in hitherto stagnant equity markets to tide them over in an integrated and vigorous market. Building a sustainable position in a unified market, where capital and resources flow more freely and where market structures are constantly evolving, requires frequent strategic reassessments of one's situation, and creativity in coming up with defensible strategies.

Successful European equity market participants indeed have many pitfalls to avoid and challenges to tackle, but in return, have numerous opportunities to pursue on an integrated European basis as never before.

NOTES

1. For instance, approximately 25 percent of the capitalization of the most active French shares are traded in London as opposed to in Paris (Hawawini and Jacquillat, 1989). In addition, this development seems to hold true in the case of large block trading of other Continental shares (Hawawini, 1984; p. 155).

2. See Walter and Smith (1989).

3. Note in this context the dramatic rise in leverage buy-out financing in the U.K. since the early 1980s. This trend has already shown signs of being duplicated in several Continental markets, notably in the Benelux countries and France.

4. Banking institutions, once secure in their comfortable role as financial "intermediaries", increasingly find themselves caught in the middle of a disintermediation process. On the one hand, large corporate and even middle market clients are increasingly looking for the funds more directly on the open capital markets. On the other hand, while there has been no massive shift from bank deposits into the individual purchase of shares and bonds, there is a definite trend towards the purchase of mutual funds which in turn invest in shares and bonds; see OECD (1988, 1987a).

5. The practical ramifications of this requirement should prove to be interesting, especially in the German context. Will the banks simply accept this requirement and off-load substantial quantities of equity paper? Or will they attempt to maintain the concomitant corporate control that came with substantial equity stakes by increasingly offering funds under the grey area of subordinated debt (debt with warrants, mezzanine funds etc.)? If the banks were to push this thinking further, might they also "encourage" the corporations to redeem outstanding shares? Under this scenario, it is possible that corporate leverage may rise and hence our statement on increased secondary equity market liquidity may need to be qualified. The final scenario that holds will most probably depend on the exact wording of "equity ownership by banks" made by the EC legislators.

6. See Hawawini and Jacquillat (1989).

7. Ibid. The reasoning here is that as these funds grow in size, the institutions that "manage" them will increasingly play a greater role in the actual dynamics of securities markets. For instance, typically, institutional market participants transact in vast quantities of securities. Hence, they will have larger effects on price movements in any individual securities market, especially those with

limited "depth" (i.e. liquidity). In turn, this implies that these institutional investors will tend to gravitate their transactions towards those financial centers where they can take an "active" approach to managing their large portfolios than in those where they are forced to take a "buy and hold" attitude. In addition to the importance of liquidity, these institutional investors will naturally favor those financial centers where trading information is readily accessible, where intermediaries are cost effective and where settlement and clearing systems are efficient.

8. For a comprehensive coverage of these legislative issues, see European Economy (1988).

9. The current International Stock Exchange is based on a "quote-driven" system whereby market makers are required to quote firm two-way prices at all times, which, in the absence of a trading floor, is done electronically on the exchange's screens. An alternative approach, the "order-driven" system is used by the New York Stock Exchange. Under this system, brokers bring the trades requested by investors to a central market place, where they take place in the presence of a "specialist" in each stock, who ensures an orderly market. The prices publicly available are those of the most recent trade, rather than competing market makers' offers of prices at which they will transact the next trade. As of this writing, the debate continues as to which system gives investors a more realistic picture of the value of securities. See N. Cohen (1989).

10. See Levy and Sarnat (1970) and B. Jacquillat and B. Solnik (1978).

11. The low correlation between stock returns and exchange rate movements has been documented in various studies. See for example, Adler and Simon (1986) and Solnik (1988).

BIBLIOGRAPHY

Adler, M. and D. Simon (1985), "Exchange Rate Surprises in International Portfolios, Journal of Portfolio Management, Winter.

Cohen, N. (1989), "A Debate Intensified by Fear", Financial Times, p. 19, May 22, 1989.

Commission of the European Communities (1989), "Banking and Finance", Chapter 29 in Panorama of EC Industry, January.

Commission of the European Communities (1988), "Creation of a European Financial Area", European Economy, N°. 35, March.

Dermine, J., editor (1989), European Banking Strategies for the 1990s, Oxford: Basil Blackwell.

Hawawini, G. (1984), European Equity Markets: Price Behavior and Efficiency, Monograph Series, New York, N.Y.: Salomon Brothers Center for the Study of Financial Institutions, New York University.

Hawawini, G. and B. Jacquillat (1989), "European Equity Markets: Toward 1992 and Beyond," in European Banking Strategies for the 1990s, J. Dermine, editor, Basil Blackwell (Oxford).

Jacquillat, B. and B. Solnik (1978), "Multinationals are Poor Tools for International Diversification," Journal of Portfolio Management, Winter.

Levy, H. and M. Sarnat (1970), "International Diversification of Investment Portfolio", American Economic Review, September.

Moniteur Du Commerce International (1988), "L'impact 92 sur les Banques", Le Dossier de la Semaine, N° 819/6, June.

OECD Publications, Paris (1988, 1987a), Financial Accounts of OECD Countries, Parts 1 & 2.

Revell, J. (1989), "Bank Preparations for 1992: Some Clues and Some Queries", Revue de la Banque (Brussels), March.

Salomon Brothers Incorporated, New York (1987), International Equity Analysis, June.

Sharpe, W. (1964), "Capital Asset Prices: A Theory of Market Equilibrium Under Conditions of Risk", Journal of Finance, September.

Solnik, B. (1988), International Investments, Reading, MA: Addison Wiley.

Spicer & Oppenheimer (1988), Guide to Securities Markets Around the World, New York: John Wiley & Sons.

Steinherr, A. and P.L. Gilibert (1989), The Impact of Financial Integration on the European Banking Industry, Brussels: Centre for European Policy Studies.

Walter, I. and R. Smith (1989), "Investment Banking in Europe After 1992", in European Banking Strategies for the 1990s, J. Dermine (1989), editor.

INSEAD WORKING PAPERS SERIES

1986

- | | | | | | |
|-------|--|--|-------|---|--|
| 86/01 | Arnoud DE MEYER | "The R & D/Production interface". | 86/16 | B. Espen ECKBO and
Hervig M. LANGOHR | "Les primes des offres publiques, la note
d'information et le marché des transferts de
contrôle des sociétés". |
| 86/02 | Philippe A. NAERT
Marcel VEVERBERGH
and Guido VERSWIJVEL | "Subjective estimation in integrating
communication budget and allocation
decisions: a case study", January 1986. | 86/17 | David B. JEMISON | "Strategic capability transfer in acquisition
integration", May 1986. |
| 86/03 | Michael BRIMM | "Sponsorship and the diffusion of
organisational innovation: a preliminary view". | 86/18 | James TEBOUL
and V. MALLERET | "Towards an operational definition of
services", 1986. |
| 86/04 | Spyros MAKRIDAKIS
and Michèle BIBON | "Confidence intervals: an empirical
investigation for the series in the M-
Competition". | 86/19 | Rob R. VEITZ | "Nostradamus: a knowledge-based forecasting
advisor". |
| 86/05 | Charles A. VYPLOSZ | "A note on the reduction of the workweek",
July 1985. | 86/20 | Albert CORHAY,
Gabriel HAVAVINI
and Pierre A. MICHEL | "The pricing of equity on the London stock
exchange: seasonality and size premium",
June 1986. |
| 86/06 | Francesco CIAVAZZI,
Jeff R. SBEEN and
Charles A. VYPLOSZ | "The real exchange rate and the fiscal
aspects of a natural resource discovery",
Revised version: February 1986. | 86/21 | Albert CORHAY,
Gabriel A. HAVAVINI
and Pierre A. MICHEL | "Risk-premia seasonality in U.S. and European
equity markets", February 1986. |
| 86/07 | Douglas L. MacLACHLAN
and Spyros MAKRIDAKIS | "Judgmental biases in sales forecasting",
February 1986. | 86/22 | Albert CORHAY,
Gabriel A. HAVAVINI
and Pierre A. MICHEL | "Seasonality in the risk-return relationships
some international evidence", July 1986. |
| 86/08 | José de la TORRE and
David R. NECKAR | "Forecasting political risks for
international operations", Second Draft:
March 3, 1986. | 86/23 | Arnoud DE MEYER | "An exploratory study on the integration of
information systems in manufacturing",
July 1986. |
| 86/09 | Philippe C. RASPESLAGH | "Conceptualizing the strategic process in
diversified firms: the role and nature of the
corporate influence process", February 1986. | 86/24 | David GAUTSCHI
and Vithala R. RAO | "A methodology for specification and
aggregation in product concept testing",
July 1986. |
| 86/10 | R. MOENART,
Arnoud DE MEYER,
J. BARBE and
D. DESCHOOLMEESTER. | "Analysing the issues concerning
technological de-maturity". | 86/25 | B. Peter GRAY
and Ingo WALTER | "Protection", August 1986. |
| 86/11 | Philippe A. NAERT
and Alain BULTZ | "From 'Lydiametry' to 'Pinkhamization':
misspecifying advertising dynamics rarely
affects profitability". | 86/26 | Barry EICHENGREEN
and Charles VYPLOSZ | "The economic consequences of the Franc
Polucare", September 1986. |
| 86/12 | Roger BETANCOURT
and David GAUTSCHI | "The economics of retail firms", Revised
April 1986. | 86/27 | Karel COOL
and Ingemar DIERICKX | "Negative risk-return relationships in
business strategy: paradox or truism?",
October 1986. |
| 86/13 | S.P. ANDERSON
and Damien J. NEVEN | "Spatial competition à la Cournot". | 86/28 | Manfred KETS DE
VRIES and Danny MILLER | "Interpreting organizational texts. |
| 86/14 | Charles WALDMAN | "Comparaison internationale des marges brutes
du commerce", June 1985. | 86/29 | Manfred KETS DE VRIES | "Why follow the leader?". |
| 86/15 | Mihkel TOMBAR and
Arnoud DE MEYER | "How the managerial attitudes of firms with
FMS differ from other manufacturing firms:
survey results". June 1986. | 86/30 | Manfred KETS DE VRIES | "The succession game: the real story. |
| | | | 86/31 | Arnoud DE MEYER | "Flexibility: the next competitive battle",
October 1986. |
| | | | 86/31 | Arnoud DE MEYER,
Jinichiro NAKANE,
Jeffrey G. MILLER
and Kasra FERDOVS | "Flexibility: the next competitive battle",
Revised Version: March 1987 |
| | | | 86/32 | Karel COOL
and Dan SCHENDEL | Performance differences among strategic group
members", October 1986. |

- 86/33 Ernst BALTENSPERGER and Jean DERMINE "The role of public policy in insuring financial stability: a cross-country, comparative perspective", August 1986, Revised November 1986.
- 86/34 Philippe RASPESLACH and David JEMISON "Acquisitions: myths and reality", July 1986.
- 86/35 Jean DERMINE "Measuring the market value of a bank, a primer", November 1986.
- 86/36 Albert CORRAY and Gabriel HAVAVINI "Seasonality in the risk-return relationship: some international evidence", July 1986.
- 86/37 David GAUTSCHI and Roger BETANCOURT "The evolution of retailing: a suggested economic interpretation".
- 86/38 Gabriel HAVAVINI "Financial innovation and recent developments in the French capital markets", Updated: September 1986.
- 86/39 Gabriel HAVAVINI, Pierre MICHEL and Albert CORRAY "The pricing of common stocks on the Brussels stock exchange: a re-examination of the evidence", November 1986.
- 86/40 Charles VYPLOSZ "Capital flows liberalization and the EMS, a French perspective", December 1986.
- 86/41 Kasra FERDOVS and Vickham SKINNER "Manufacturing in a new perspective", July 1986.
- 86/42 Kasra FERDOVS and Per LINDBERG "EMS as indicator of manufacturing strategy", December 1986.
- 86/43 Damien NEVEN "On the existence of equilibrium in Hotelling's model", November 1986.
- 86/44 Ingemar DIERICKX, Carmen MATUTES and Damien NEVEN "Value added tax and competition", December 1986.
- 1987
- 87/01 Manfred KETS DE VRIES "Prisoners of leadership".
- 87/02 Claude VIALLET "An empirical investigation of international asset pricing", November 1986.
- 87/03 David GAUTSCHI and Vithala RAO "A methodology for specification and aggregation in product concept testing", Revised Version: January 1987.
- 87/04 Sumantra GHOSHAL and Christopher BARTLETT "Organising for innovations: case of the multinational corporation", February 1987.
- 87/05 Arnoud DE MEYER and Kasra FERDOVS "Managerial focal points in manufacturing strategy", February 1987.
- 87/06 Arun K. JAIN, Christian PINSON and Naresh K. MALHOTRA "Customer loyalty as a construct in the marketing of banking services", July 1986.
- 87/07 Rolf BANZ and Gabriel HAVAVINI "Equity pricing and stock market anomalies", February 1987.
- 87/08 Manfred KETS DE VRIES "Leaders who can't manage", February 1987.
- 87/09 Lister VICKERY, Mark PILKINGTON and Paul READ "Entrepreneurial activities of European MBAs", March 1987.
- 87/10 André LAURENT "A cultural view of organizational change", March 1987.
- 87/11 Robert FILDÉS and Spyros MAKRIDAKIS "Forecasting and loss functions", March 1987.
- 87/12 Fernando BARTOLOME and André LAURENT "The Janus Head: learning from the superior and subordinate faces of the manager's job", April 1987.
- 87/13 Sumantra GHOSHAL and Nitin MOHRIA "Multinational corporations as differentiated networks", April 1987.
- 87/14 Landis GABEL "Product Standards and Competitive Strategy: An Analysis of the Principles", May 1987.
- 87/15 Spyros MAKRIDAKIS "METAFORECASTING: Ways of improving Forecasting. Accuracy and Usefulness", May 1987.
- 87/16 Susan SCHNEIDER and Roger DUNBAR "Takeover attempts: what does the language tell us?", June 1987.
- 87/17 André LAURENT and Fernando BARTOLOME "Managers' cognitive maps for upward and downward relationships", June 1987.
- 87/18 Reinhard ANGELMAR and Christoph LIEBSCHER "Patents and the European biotechnology law: a study of large European pharmaceutical firms", June 1987.
- 87/19 David BEGG and Charles VYPLOSZ "Why the EMS? Dynamic games and the equilibrium policy regime", May 1987.
- 87/20 Spyros MAKRIDAKIS "A new approach to statistical forecasting", June 1987.
- 87/21 Susan SCHNEIDER "Strategy formulation: the impact of national culture", Revised: July 1987.
- 87/22 Susan SCHNEIDER "Conflicting ideologies: structural and motivational consequences", August 1987.
- 87/23 Roger BETANCOURT and David GAUTSCHI "The demand for retail products and the household production model: new views on complementarity and substitutability".

87/24	C.B. DERR and André LAURENT	"The internal and external careers: a theoretical and cross-cultural perspective", Spring 1987.	87/41	Gavriel HAVAVINI and Claude VIALLET	"Seasonality, size premium and the relationship between the risk and the return of French common stocks", November 1987
87/25	A. K. JAIN, N. K. MALHOTRA and Christian PINSON	"The robustness of MDS configurations in the face of incomplete data", March 1987, Revised: July 1987.	87/42	Damien NEVEN and Jacques-P. THISSE	"Combining horizontal and vertical differentiation: the principle of max-win differentiation", December 1987
87/26	Roger BETANCOURT and David GAUTSCHI	"Demand complementarities, household production and retail assortments", July 1987.	87/43	Jean GABSZEVICZ and Jacques-F. THISSE	"Location", December 1987
87/27	Michael BURDA	"Is there a capital shortage in Europe?", August 1987.	87/44	Jonathan HAMILTON, Jacques-P. THISSE and Anita VESKAMP	"Spatial discrimination: Bertrand vs. Cournot in a model of location choice", December 1987
87/28	Gabriel HAVAVINI	"Controlling the interest-rate risk of bonds: an introduction to duration analysis and immunization strategies", September 1987.	87/45	Karel COOL, David JEMISON and Ingemar DIERICKX	"Business strategy, market structure and risk- return relationships: a causal interpretation". December 1987.
87/29	Susan SCHNEIDER and Paul SHRIVASTAVA	"Interpreting strategic behavior: basic assumptions themes in organizations", September 1987	87/46	Ingemar DIERICKX and Karel COOL	"Asset stock accumulation and sustainability of competitive advantage", December 1987.
87/30	Jonathan HAMILTON V. Bentley MACLEOD and J. P. THISSE	"Spatial competition and the Core", August 1987.	<u>1988</u>		
87/31	Martine QUINZII and J. P. THISSE	"On the optimality of central places", September 1987.	88/01	Michael LAVRENCE and Spyros MAKRIDAKIS	"Factors affecting judgemental forecasts and confidence intervals", January 1988.
87/32	Arnoud DE MEYER	"German, French and British manufacturing strategies less different than one thinks", September 1987.	88/02	Spyros MAKRIDAKIS	"Predicting recessions and other turning points", January 1988.
87/33	Yves DOZ and Amy SHUEN	"A process framework for analyzing cooperation between firms", September 1987.	88/03	James TEBOUL	"De-industrialize service for quality", January 1988.
87/34	Kasra FERDOVS and Arnoud DE MEYER	"European manufacturers: the dangers of complacency. Insights from the 1987 European manufacturing futures survey, October 1987.	88/04	Susan SCHNEIDER	"National vs. corporate culture: implications for human resource management", January 1988.
87/35	P. J. LEDERER and J. P. THISSE	"Competitive location on networks under discriminatory pricing", September 1987.	88/05	Charles VYPOLOSZ	"The swinging dollar: is Europe out of step?", January 1988.
87/36	Manfred KETS DE VRIES	"Prisoners of leadership", Revised version October 1987.	88/06	Reinhard ANGELMAR	"Les conflits dans les canaux de distribution", January 1988.
87/37	Landis GABEL	"Privatization: its motives and likely consequences", October 1987.	88/07	Ingemar DIERICKX and Karel COOL	"Competitive advantage: a resource based perspective", January 1988.
87/38	Susan SCHNEIDER	"Strategy formulation: the impact of national culture", October 1987.	88/08	Reinhard ANGELMAR and Susan SCHNEIDER	"Issues in the study of organizational cognition", February 1988.
87/39	Manfred KETS DE VRIES 1987	"The dark side of CEO succession", November 1987	88/09	Bernard SINCLAIR- DESGAGNÉ	"Price formation and product design through bidding", February 1988.
87/40	Carmen MATUTES and Pierre REGIBEAU	"Product compatibility and the scope of entry", November 1987	88/10	Bernard SINCLAIR- DESGAGNÉ	"The robustness of some standard auction game forms", February 1988.
			88/11	Bernard SINCLAIR- DESGAGNÉ	"When stationary strategies are equilibrium bidding strategy: The single-crossing property", February 1988.

- 88/12 Spyros MAKRIDAKIS "Business firms and managers in the 21st century", February 1988
- 88/13 Manfred KETS DE VRIES "Alexithymia in organizational life: the organization man revisited", February 1988.
- 88/14 Alain NOEL "The interpretation of strategies: a study of the impact of CEOs on the corporation", March 1988.
- 88/15 Anil DEOLALIKAR and Lars-Hendrik RÖLLER "The production of and returns from industrial innovations: an econometric analysis for a developing country", December 1987.
- 88/16 Gabriel HAVAVINI "Market efficiency and equity pricing: international evidence and implications for global investing", March 1988.
- 88/17 Michael BURDA "Monopolistic competition, costs of adjustment and the behavior of European employment", September 1987.
- 88/18 Michael BURDA "Reflections on 'Vault Unemployment' in Europe", November 1987, revised February 1988.
- 88/19 M.J. LAWRENCE and Spyros MAKRIDAKIS "Individual bias in judgements of confidence", March 1988.
- 88/20 Jean DERMINE, Damien NEVEN and J.F. THISSE "Portfolio selection by mutual funds, an equilibrium model", March 1988.
- 88/21 James TEBOUL "De-industrialize service for quality", March 1988 (88/03 Revised).
- 88/22 Lars-Hendrik RÖLLER "Proper Quadratic Functions with an Application to AT&T", May 1987 (Revised March 1988).
- 88/23 Sjur Didrik FLAM and Georges ZACCOUR "Equilibres de Nash-Cournot dans le marché européen du gaz: un cas où les solutions en boucle ouverte et en feedback coïncident", Mars 1988
- 88/24 B. Espen ECKBO and Hervig LANGOHR "Information disclosure, means of payment, and takeover premia. Public and Private tender offers in France", July 1985, Sixth revision, April 1988.
- 88/25 Everette S. GARDNER and Spyros MAKRIDAKIS "The future of forecasting", April 1988.
- 88/26 Sjur Didrik FLAM and Georges ZACCOUR "Semi-competitive Cournot equilibrium in multistage oligopolies", April 1988.
- 88/27 Murugappa KRISHNAN and Lars-Hendrik RÖLLER "Entry game with resalable capacity", April 1988.
- 88/28 Sumantra GHOSHAL and C. A. BARTLETT "The multinational corporation as a network: perspectives from interorganizational theory", May 1988.
- 88/29 Nareesh K. MALHOTRA, Christian PINSON and Arun K. JAIN "Consumer cognitive complexity and the dimensionality of multidimensional scaling configurations", May 1988.
- 88/30 Catherine C. ECKEL and Theo VERMAELEN "The financial fallout from Chernobyl: risk perceptions and regulatory response", May 1988.
- 88/31 Sumantra GHOSHAL and Christopher BARTLETT "Creation, adoption, and diffusion of innovations by subsidiaries of multinational corporations", June 1988.
- 88/32 Kasra FERDOVS and David SACKRIDER "International manufacturing: positioning plants for success", June 1988.
- 88/33 Mihkel M. TOMBAK "The importance of flexibility in manufacturing", June 1988.
- 88/34 Mihkel M. TOMBAK "Flexibility: an important dimension in manufacturing", June 1988.
- 88/35 Mihkel M. TOMBAK "A strategic analysis of investment in flexible manufacturing systems", July 1988.
- 88/36 Vikas TIBREVALA and Bruce BUCHANAN "A Predictive Test of the NBD Model that Controls for Non-stationarity", June 1988.
- 88/37 Murugappa KRISHNAN and Lars-Hendrik RÖLLER "Regulating Price-Liability Competition To Improve Welfare", July 1988.
- 88/38 Manfred KETS DE VRIES "The Motivating Role of Envy: A Forgotten Factor in Management", April 88.
- 88/39 Manfred KETS DE VRIES "The Leader as Mirror: Clinical Reflections", July 1988.
- 88/40 Josef LAKONISHOK and Theo VERMAELEN "Anomalous price behavior around repurchase tender offers", August 1988.
- 88/41 Charles VYPOLOSZ "Asymmetry in the EMS: intentional or systemic?", August 1988.
- 88/42 Paul EVANS "Organizational development in the transnational enterprise", June 1988.
- 88/43 B. SINCLAIR-DESGAGNE "Group decision support systems implement Bayesian rationality", September 1988.
- 88/44 Essam MAHMOUD and Spyros MAKRIDAKIS "The state of the art and future directions in combining forecasts", September 1988.
- 88/45 Robert KORAJCZYK and Claude VIALLET "An empirical investigation of international asset pricing", November 1986, revised August 1988.
- 88/46 Yves DOZ and Amy SHUEN "From intent to outcome: a process framework for partnerships", August 1988.

- 88/47 Alain BULTEZ, Els GIJSBRECHTS, Philippe NAERT and Piet VANDEN ABEELE "Asymmetric cannibalism between substitute items listed by retailers", September 1988.
- 88/48 Michael BURDA "Reflections on 'Wait unemployment' in Europe, II", April 1988 revised September 1988.
- 88/49 Nathalie DIERKENS "Information asymmetry and equity issues", September 1988.
- 88/50 Rob WEITZ and Arnoud DE MEYER "Managing expert systems: from inception through updating", October 1987.
- 88/51 Rob WEITZ "Technology, work, and the organization: the impact of expert systems", July 1988.
- 88/52 Susan SCHNEIDER and Reinhard ANGELMAR "Cognition and organizational analysis: who's minding the store?", September 1988.
- 88/53 Manfred KETS DE VRIES "Whatever happened to the philosopher-king: the leader's addiction to power, September 1988.
- 88/54 Lars-Hendrik RÖLLER and Mihkel M. TOMBAK "Strategic choice of flexible production technologies and welfare implications", October 1988
- 88/55 Peter BOSSAERTS and Pierre HILLION "Method of moments tests of contingent claims asset pricing models", October 1988.
- 88/56 Pierre HILLION "Size-sorted portfolios and the violation of the random walk hypothesis: Additional empirical evidence and implication for tests of asset pricing models", June 1988.
- 88/57 Wilfried VANBONACKER and Lydia PRICE "Data transferability: estimating the response effect of future events based on historical analogy", October 1988.
- 88/58 B. SINCLAIR-DESGAGNE and Mihkel M. TOMBAK "Assessing economic inequality", November 1988.
- 88/59 Martin KILDUFF "The interpersonal structure of decision making: a social comparison approach to organizational choice", November 1988.
- 88/60 Michael BURDA "Is mismatch really the problem? Some estimates of the Chelwood Gate II model with US data", September 1988.
- 88/61 Lars-Hendrik RÖLLER "Modelling cost structure: the Bell System revisited", November 1988.
- 88/62 Cynthia VAN HULLE, Theo VERNAELEN and Paul DE VOUTERS "Regulation, taxes and the market for corporate control in Belgium", September 1988.
- 88/63 Fernando NASCIMENTO and Wilfried R. VANHONACKER "Strategic pricing of differentiated consumer durables in a dynamic duopoly: a numerical analysis", October 1988.
- 88/64 Kasra FERDOVS "Charting strategic roles for international factories", December 1988.
- 88/65 Arnoud DE MEYER and Kasra FERDOVS "Quality up, technology down", October 1988.
- 88/66 Nathalie DIERKENS "A discussion of exact measures of information asymmetry: the example of Myers and Majluf model or the importance of the asset structure of the firm", December 1988.
- 88/67 Paul S. ADLER and Kasra FERDOVS "The chief technology officer", December 1988.
- 1989
- 89/01 Joyce K. BYRER and Tavfik JELASSI "The impact of language theories on DSS dialog", January 1989.
- 89/02 Louis A. LE BLANC and Tavfik JELASSI "DSS software selection: a multiple criteria decision methodology", January 1989.
- 89/03 Beth H. JONES and Tavfik JELASSI "Negotiation support: the effects of computer intervention and conflict level on bargaining outcome", January 1989.
- 89/04 Kasra FERDOVS and Arnoud DE MEYER "Lasting improvement in manufacturing performance: In search of a new theory", January 1989.
- 89/05 Martin KILDUFF and Reinhard ANGELMAR "Shared history or shared culture? The effects of time, culture, and performance on institutionalization in simulated organizations", January 1989.
- 89/06 Mihkel M. TOMBAK and B. SINCLAIR-DESGAGNE "Coordinating manufacturing and business strategies: I", February 1989.
- 89/07 Damien J. NEVEN "Structural adjustment in European retail banking. Some view from industrial organisation", January 1989.
- 89/08 Arnoud DE MEYER and Hellmut SCHÖTTE "Trends in the development of technology and their effects on the production structure in the European Community", January 1989.
- 89/09 Damien NEVEN, Carmen MATUTES and Marcel CORSTJENS "Brand proliferation and entry deterrence", February 1989.
- 89/10 Nathalie DIERKENS, Bruno GERARD and Pierre HILLION "A market based approach to the valuation of the assets in place and the growth opportunities of the firm", December 1988.

- | | | | | | |
|-------|--|---|-------|--|--|
| 89/11 | Manfred KETS DE VRIES and Alain MOEL | "Understanding the leader-strategy interface: application of the strategic relationship interview method", February 1989. | 89/27 | David KRACKHARDT and Martin KILDUFF | "Friendship patterns and cultural attributions: the control of organizational diversity", April 1989 |
| 89/12 | Vilfried VANHONACKER | "Estimating dynamic response models when the data are subject to different temporal aggregation", January 1989. | 89/28 | Martin KILDUFF | "The interpersonal structure of decision making: a social comparison approach to organizational choice", Revised April 1989 |
| 89/13 | Manfred KETS DE VRIES | "The impostor syndrome: a disquieting phenomenon in organizational life", February 1989. | 89/29 | Robert GOGEL and Jean-Claude LARRECHE | "The battlefield for 1992: product strength and geographic coverage", May 1989 |
| 89/14 | Reinhard ANGELMAR | "Product innovation: a tool for competitive advantage", March 1989. | 89/30 | Lars-Bendrik ROLLER and Mihkel M. TOHBAK | "Competition and Investment in Flexible Technologies", May 1989 |
| 89/15 | Reinhard ANGELMAR | "Evaluating a firm's product innovation performance", March 1989. | 89/31 | Michael C. BURDA and Stefan GERLACH | "Durables and the US Trade Deficit", May 1989 |
| 89/16 | Vilfried VANHONACKER, Donald LEHMANN and Fareena SULTAN | "Combining related and sparse data in linear regression models", February 1989. | 89/32 | Peter HAUG and Tavfik JELASSI | "Application and evaluation of a multi-criteria decision support system for the dynamic selection of U.S. manufacturing locations", May 1989 |
| 89/17 | Gilles AMADO, Claude FAUCHEUX and André LAURENT | "Changement organisationnel et réalités culturelles: contrastes franco-américains", March 1989. | 89/33 | Bernard SINCLAIR-DESGAGNE | "Design flexibility in monopolistic industries", May 1989 |
| 89/18 | Srinivasan BALAKRISHNAN and Mitchell KOZA | "Information asymmetry, market failure and joint-ventures: theory and evidence", March 1989 | 89/34 | Sumantra GHOSHAL and Nittin MOHRIA | "Requisite variety versus shared values: managing corporate-division relationships in the M-Form organisation", May 1989 |
| 89/19 | Vilfried VANHONACKER, Donald LEHMANN and Fareena SULTAN | "Combining related and sparse data in linear regression models", Revised March 1989 | 89/35 | Jean DERMINE and Pierre HILLION | "Deposit rate ceilings and the market value of banks: The case of France 1971-1981", May 1989 |
| 89/20 | Vilfried VANHONACKER and Russell VINER | "A rational random behavior model of choice", Revised March 1989 | 89/36 | Martin KILDUFF | "A dispositional approach to social networks: the case of organizational choice", May 1989 |
| 89/21 | Arnoud de MEYER and Larra FERDOUS | "Influence of manufacturing improvement programmes on performance", April 1989 | 89/37 | Manfred KETS DE VRIES | "The organizational fool: balancing a leader's hubris", May 1989 |
| 89/22 | Manfred KETS DE VRIES and Sydney PERZOV | "What is the role of character in psychoanalysis? April 1989 | 89/38 | Manfred KETS DE VRIES | "The CEO blues", June 1989 |
| 89/23 | Robert KORAJCZYK and Claude VIALLET | "Equity risk premia and the pricing of foreign exchange risk" April 1989 | 89/39 | Robert KORAJCZYK and Claude VIALLET | "An empirical investigation of international asset pricing", (Revised June 1989) |
| 89/24 | Martin KILDUFF and Michel ABOLAFIA | "The social destruction of reality: Organisational conflict as social drama" April 1989 | 89/40 | Balaji CHAKRAVARTHY | "Management systems for innovation and productivity", June 1989 |
| 89/25 | Roger BETANCOURT and David GAUTSCHI | "Two essential characteristics of retail markets and their economic consequences" March 1989 | 89/41 | B. SINCLAIR-DESGAGNE and Nathalie DIERKENS | "The strategic supply of precisions", June 1989 |
| 89/26 | Charles BEAN, Edmond MALINVAUD, Peter BERNHOLTZ, Francesco GIAVAZZI and Charles VYPOLOSZ | "Macroeconomic policies for 1992: the transition and after", April 1989 | 89/42 | Robert ANSON and Tavfik JELASSI | "A development framework for computer-supported conflict resolution", July 1989 |
| | | | 89/43 | Michael BURDA | "A note on firing costs and severance benefits in equilibrium unemployment", June 1989 |
| | | | 89/44 | Balaji CHAKRAVARTHY and Peter LORANGE | "Strategic adaptation in multi-business firms", June 1989 |
| | | | 89/45 | Rob VEITZ and Arnoud DE MEYER | "Managing expert systems: a framework and case study", June 1989 |

89/46	Marcel CORSTJENS, Carwen MATUTES and Damien NEVEN	"Entry Encouragement", July 1989	89/64	Enver YUCESAN and (TM) Lee SCHRUBEN	"Complexity of simulation models: A graph theoretic approach", November 1989
89/47	Manfred KETS DE VRIES and Christine MEAD	"The global dimension in leadership and organization: issues and controversies", April 1989	89/65	Soumitra DUTTA and (TM, Piero BONISSONE AC, PIN)	"MARS: A mergers and acquisitions reasoning system", November 1989
89/48	Damien NEVEN and Lars-Hendrik ROLLER	"European integration and trade flows", August 1989	89/66	B. SINCLAIR-DESGAGNE (TM,EP)	"On the regulation of procurement bids", November 1989
89/49	Jean DERMINE	"Home country control and mutual recognition", July 1989	89/67	Peter BOSSAERTS and (PIN) Pierre HILLION	"Market microstructure effects of government intervention in the foreign exchange market", December 1989
89/50	Jean DERMINE	"The specialization of financial institutions, the EEC model", August 1989			
89/51	Spyros MAKRIDAKIS	"Sliding simulation: a new approach to time series forecasting", July 1989			
89/52	Arnoud DE MEYER	"Shortening development cycle times: a manufacturer's perspective", August 1989			
89/53	Spyros MAKRIDAKIS	"Why combining works?", July 1989			
89/54	S. BALAKRISHNAN and Mitchell KOZA	"Organisation costs and a theory of joint ventures", September 1989			
89/55	B. SCHUTTE	"Euro-Japanese cooperation in information technology", September 1989			
89/56	Wilfried VANBONACKER and Lydia PRICE	"On the practical usefulness of meta-analysis results", September 1989			
89/57	Taekvon KIM, Lars-Hendrik ROLLER and Mihkel TOMBAK	"Market growth and the diffusion of multiproduct technologies", September 1989			
89/58	Lars-Hendrik ROLLER (EP,TM) and Mihkel TOMBAK	"Strategic aspects of flexible production technologies", October 1989			
89/59	Manfred KETS DE VRIES, (OB) Daphna ZEVADI, Alain NOEL and Mihkel TOMBAK	"Locus of control and entrepreneurship: a three-country comparative study", October 1989			
89/60	Enver YUCESAN and (TM) Lee SCHRUBEN	"Simulation graphs for design and analysis of discrete event simulation models", October 1989			
89/61	Susan SCHNEIDER and (All) Arnoud DE MEYER	"Interpreting and responding to strategic issues: The impact of national culture", October 1989			
89/62	Arnoud DE MEYER (TM)	"Technology strategy and international R & D operations", October 1989			
89/63	Enver YUCESAN and (TM) Lee SCHRUBEN	"Equivalence of simulations: A graph theoretic approach", November 1989			

1990

- | | | |
|-------------------|---|---|
| 90/01/TM
EP/AC | B. SINCLAIR-DESGAGNE | "Unavoidable Mechanisms", January 1990 |
| 90/02/EP | Michael BURDA | "Monopolistic Competition, Costs of Adjustment, and the Behaviour of European Manufacturing Employment", January 1990 |
| 90/03/TM | Arnoud DE MEYER | "Management of Communication in International Research and Development", January 1990 |
| 90/04/
FIN/EP | Gabriel HAWAWINI and
Eric RAJENDRA | "The Transformation of the European Financial Services Industry: From Fragmentation to Integration", January 1990 |
| 90/05/
FIN/EP | Gabriel HAWAWINI and
Bertrand JACQUILLAT | "European Equity Markets: Toward 1992 and Beyond", January 1990 |