

Berthoin Antal, Ariane; Dierkes, Meinolf

Working Paper

On the importance of being earnest about business: overcoming liberal arts students' misconceptions about leadership in corporate change processes

WZB Discussion Paper, No. FS II 02-114

Provided in Cooperation with:

WZB Berlin Social Science Center

Suggested Citation: Berthoin Antal, Ariane; Dierkes, Meinolf (2002) : On the importance of being earnest about business: overcoming liberal arts students' misconceptions about leadership in corporate change processes, WZB Discussion Paper, No. FS II 02-114, Wissenschaftszentrum Berlin für Sozialforschung (WZB), Berlin

This Version is available at:

<https://hdl.handle.net/10419/49778>

Standard-Nutzungsbedingungen:

Die Dokumente auf EconStor dürfen zu eigenen wissenschaftlichen Zwecken und zum Privatgebrauch gespeichert und kopiert werden.

Sie dürfen die Dokumente nicht für öffentliche oder kommerzielle Zwecke vervielfältigen, öffentlich ausstellen, öffentlich zugänglich machen, vertreiben oder anderweitig nutzen.

Sofern die Verfasser die Dokumente unter Open-Content-Lizenzen (insbesondere CC-Lizenzen) zur Verfügung gestellt haben sollten, gelten abweichend von diesen Nutzungsbedingungen die in der dort genannten Lizenz gewährten Nutzungsrechte.

Terms of use:

Documents in EconStor may be saved and copied for your personal and scholarly purposes.

You are not to copy documents for public or commercial purposes, to exhibit the documents publicly, to make them publicly available on the internet, or to distribute or otherwise use the documents in public.

If the documents have been made available under an Open Content Licence (especially Creative Commons Licences), you may exercise further usage rights as specified in the indicated licence.

Schriftenreihe der Abteilung „Organisation und Technikgenese“
des Forschungsschwerpunkts Technik-Arbeit-Umwelt am Wissenschaftszentrum Berlin
für Sozialforschung

FS II 02-114

**On the Importance of Being Earnest about Business:
Overcoming liberal arts students' misconceptions
about leadership in corporate change processes**

Ariane Berthoin Antal und Meinolf Dierkes

Wissenschaftszentrum Berlin für Sozialforschung gGmbH (WZB)
Reichpietschufer 50, D-10785 Berlin
Telefon (030) 25491-207, Fax (020) 25491-209
abantal@wz-berlin.de

Abstract

Unfortunately, most students leave the university with little knowledge about decision-making in the public sector. Unless they study towards a management degree, most students experience little to no business education in their curricula. As a consequence, student perceptions of the business world are largely shaped by the fads and stereotypes propagated in ubiquitous business journals available in every airport bookstore worldwide. Since business plays an integral role in society, such unfamiliarity with business may have global social consequences. This article illustrates how a liberal arts class focusing on Europe's social and political integration employs a comprehensive case study about a corporate transformation process to provide students with insights into corporate leadership and strategic decision making. The article describes how, by reading and discussing the case study in conjunction with articles about organizational learning theory, students learn to effectively challenge the myths they hold about heroic leadership and the newest management fads. A key element in the course focuses on the role organizational politics plays in developing and implementing a new vision, a new organizational structure, and a new global strategy.

Zusammenfassung

Obwohl Unternehmen eine wichtige Rolle in der Gesellschaft spielen, werden Studenten außerhalb der Betriebswirtschaft noch zu selten an Fragestellungen aus dem Bereich der Unternehmenspolitik herangeführt. Wie strategische Entscheidungen in der Wirtschaft getroffen und umgesetzt und neue Visionen und Organisationsstrukturen entwickelt werden, sollte deshalb auch in das Lehrangebot für Geistes- und Sozialwissenschaftler aufgenommen werden. Dieser Artikel zeigt beispielhaft, wie Studenten, im Rahmen einer Lehrveranstaltung an einer US-amerikanischen Universität, anhand einer umfassenden Fallstudie über den Transformationsprozess des Pharmakonzerns Hoechst zum Global Player Aventis zur aktiven Auseinandersetzung mit Veränderungsprozessen in Unternehmen angeregt werden, die ganz anders sind, als die oft plakativen Managementlösungen, die die Business-Literatur dieser Tage zu bieten hat.

On the Importance of Being Earnest about Business:

Overcoming liberal arts students' misconceptions about leadership in corporate change processes

Liberal arts students tend to think they know about how business works because they read the headlines of magazines touting the newest fads in management thinking. They have seen the fashionable labels like Re-engineering, Quality Circles, Benchmarking, and Shareholder Value succeeding each other from year to year. These students rarely get any closer to the reality of what happens inside the private sector than the titles of popular business books sold in every airport and general bookstore. Their idea of business leadership has been formed largely by the best-selling biographies of chief executive officers like Jack Welch and Lee Iacocca in the United States. Such captains of industry have attained heroic proportions with the help of business magazines that have repeatedly displayed their faces on the covers and devoted banner headlines to their feats—and their equally dramatic defeats. Hollywood blockbuster movies, with their portrayals of scheming, egomaniac managers, also shape students' expectations of how leaders behave in business.

Few liberal arts curricula contain units that provide an inside look into business organizations. As a result, too many students graduate from university with misconceptions of how business works, and little or no understanding of how decisions are made in the private sector. Considering the significant role that business plays in societies today, this deficit constitutes a serious problem. An understanding of business is too important a matter to be left only to MBA students. The topic of how business responds to and also shapes socioeconomic, political and technological changes at the national, regional, and global level should be embedded into various courses in the liberal arts curriculum. In order to illustrate the rich possibilities for learning, this article describes how an area studies course used a business case study to explode myths about leadership in achieving a complex transformation.

Embedding an understanding of business into a liberal arts course

Over the past ten years one of us (Meinolf Dierkes) has taught an undergraduate course on the social, political, and economic dimensions of European integration at the University of California at Berkeley. The students, who are in their third or fourth year of undergraduate study, come from a range of academic programs. Some major in English, others in political science, economics, even engineering. Many of the students major in the interdisciplinary program, the Political Economy of Industrial Societies (PEIS). They are a special group in the sense that almost all have spent a year of study abroad or have lived outside the United States for family reasons, and many of them often speak and read several languages. They are clearly interested in learning more about Europe and how its political institutions function. These students are also curious about how European companies are meeting the challenge of the large internal market and the implications of globalization for that market. They come to the course with some knowledge about the European Union and with quite mixed feelings about the business sector in Europe. To them, Europe appears to be not particularly innovative; it lags behind the United States, and has low growth rates. Yet in their daily experience they see the Mercedes Benz cars they would like to drive and the newest Nokia phones they would like to own. As L'Oréal and Bertelsmann take over their U.S. competitors and dominate their respective markets on a global scale, the students cannot deny the influence of European business worldwide.

The course on “Europe In Transition: Are Its Institutions Able to Adapt?” draws on integration theories from political science (e.g., federalism, neo-institutionalism and realism) as well as organizational behavior literature (e.g., change management and organizational learning) to analyze the development and impact of the European Union on the public and the private sector. The readings¹ cover the historical processes and current policy issues, showing how nearly every aspect of public life—from governance, policy-making, citizenship,

¹ The course uses a comprehensive 500-page reader with articles from academic publications, newspapers, the business press, and the Internet. Meinolf Dierkes, “Europe in Transition: Are Its Institutions Able to Adapt?”, UC Berkeley, 2002.

and notions of statehood to market-making and social justice—is subjected to review, or even renewal, by the integration process. After grasping the concepts and theories, as well as the role and functioning of the different institutions of the European Union, the students spend the second half of the course looking at the practical implications of these developments. They first investigate public sector organizations responsible for policymaking and discuss how well these institutions have learned (or not) to grapple with the expansion and integration of Europe. They then examine how the private sector deals with the challenges posed by European integration. In this section of the course the students work in groups on different industries, for example the automotive industry, the financial sector and the media, and focus on specific corporations within those industries to explore how the organizations have dealt with the opportunities and threats created through the changes in the European business environment.

A policy-oriented course of this type must be solidly grounded in theory and historical perspective, while also keeping up with relevant recent developments, so the syllabus and reader are updated regularly to reflect new ideas, issues, and examples. The course has also undergone redesign as a result of our² own learning over time. One of the elements added to the course three years ago draws on a research project we had just completed with colleagues in Germany and Japan about the transformation of a multinational company in the chemical-pharmaceutical industry.³ The purpose of adding a comprehensive case for all the students to examine was to enrich the business-related part of the course by providing insights into real organizational issues and processes involving managers from different cultural backgrounds. The case consists of two parts. Case A outlines the historical and cultural background, revealing the situation faced by the new chief executive officer when he took on the

² Although only one of us is teaching this particular course, we work closely together on many projects, and “shadow consult” often on our separate assignments, so we have regularly discussed the design and the experience of this course over the years.

³ *The Transformation of Hoechst to Aventis – From German Chemicals Giant to Life Sciences Multinational*. By Ariane Berthoin Antal, in collaboration with Meinolf Dierkes, Camilla Krebsbach-Gnath, and Ikujiro Nonaka, 2001.

responsibility in 1994. Case B then describes the dynamics of the transformation process from 1994 to 2000.

All the students work on this case at the end of the semester, bringing them together after their group work on different industries. It serves as a capstone for the business section of the course and creates a platform for the students to discover and discuss multiple dimensions of organizational change processes. Instead of confirming fashionable management recipes—or, worse yet, generating dazzling new ones—the case illustrates the importance of applying existing business practices in parallel to accomplish a comprehensive transformation. Rather than satisfying the students' fad-led thirst for a heroic leader to master the huge challenge, the case “stars” normal, very competent, but non-heroic business people who exercise varied leadership styles to design and achieve change. It has proved to be a useful vehicle for correcting the misconceptions many students have about organizational change processes and the skills of leaders.

Putting students into the picture (Case A)

Up to 1994, as the students discover when they read case A, Hoechst AG was a successful international corporation based in Germany, with a history dating back to the late 1800s. It had internationalized very quickly in the early 1900s and had weathered the politically and economically turbulent 20th century to become a diversified conglomerate that was not only one of Germany's top companies but was also the third largest chemical company in the world and the second largest pharmaceutical company in the last decade of the century. Hoechst AG pursued research in 19 countries, and in 1991, a year marked by worldwide economic difficulties, it had posted record sales of over DM 47 billion (i.e., \$31 billion at the 1991 exchange rate). Despite this glowing image, however, it faced a number of challenges and some organizational growing pains, not unlike that of many older companies. Some attempts had already been made to address problems in the previous decade, but the new CEO, Jürgen Dormann, believed that much more had to be done, and it had to be done immediately.

Among the issues of high concern for Hoechst management during that time were globalization and new technological options, namely, biotechnology, which was increasing the pace of the already quite competitive pharmaceutical industry. Hoechst was thereby under pressure to rapidly respond, learn, and expand its technological base. The increasing financial investments required to remain on the technological cutting edge had pushed many pharmaceutical firms into mergers and acquisitions to achieve the requisite size. Bigger and stronger competitors were changing the industry landscape. Additionally, discussions of new management philosophies such as core competence and shareholder value spread throughout the corporate world, especially among the increasingly influential group of institutional investors, adding concerns to executives leading their companies through a business environment in continual flux.

The culture and processes Hoechst had developed had stood it in good stead for a hundred years. Hoechst's care of its employees and the company's German roots were highly valued. The organizational structure reflected the corporate culture, a structure based on hierarchy and a large central planning unit, through which all information worldwide was processed. Some managers, particularly those based in foreign markets, felt that this structure slowed decision-making and responsiveness to local markets. The hierarchy and strongly academically oriented values that drove the company had already caused recognizable problems in the pharmaceutical division, which spent more than the industry average on R&D but had an admittedly weak pipeline to show for it. Although the highest ever profits for Hoechst were within recent history, a slip in performance prior to 1994 had some managers concerned that Hoechst would slowly fall from its top position as one of the most successful and respected international corporations. Jürgen Dormann, the new CEO, described the situation succinctly: "Hoechst was German-rooted, strongly science based, not very market-oriented, very academic. We had to change that."

After reading case A, the students tend to have a variety of responses. Some are impressed by the successful track record and wonder why the new CEO is

so adamant that a major effort has to be undertaken to change the company. Others are surprised that such a hierarchically structured and centralized bureaucracy could have been successful at all. A few students challenge the very notion of Hoechst being successful because they are surprised that shareholders were satisfied with so little for so long, compared to the short term, high returns expected by shareholders in the United States. The students' task is to assess the situation and to decide what the CEO should do if he wants to launch a high-impact change process. Typical responses include hiring a consulting company to come up with a modern structure and strategy, and to replace the senior management with people who have experience in other companies and can make unpopular decisions and see them through so as to really change the culture. Those students who have absorbed some of the business book headlines speak of reengineering the corporation, bringing in tough turnaround managers, and getting the CEO to lead with an exciting new vision. They say that it is time for Hoechst to focus on its core competence and "stick to the knitting" instead of continuing its strategy of balancing risks through diversification. Whichever position the students take, and no matter which level of business terminology they use, they usually all share a sense that the situation can be managed with a few dramatic strokes of modern management and strong visionary leadership.

Showing students how life-size managers make change happen (Case B)

Case B reveals to the students that a mere six years later, in 2000, Hoechst no longer existed as such: it had become Aventis, SA, a global life-science corporation headquartered in France. It bore very little resemblance to the prior diversified conglomerate with investments in industries spanning from cosmetics, fibers, plastics, petrochemicals to dyes and pharmaceuticals. Hoechst's management had divested itself of almost all these activities, focusing only on the business area promising the highest profit margins, life sciences. To compete with the world's biggest and best life-science companies, it had merged with Rhône Poulenc of France. An enormous transformation had been achieved, but quite differently than the students tend to expect from their

exposure to management fads. It was done not by leaders of heroic proportions brought in from the outside, but rather by life-size managers, most of whom had been with Hoechst for many years. These people knew the weaknesses of the company and brought in management ideas they had observed working well elsewhere in different parts of the world—nothing particularly spectacular nor terrifically new, at least as compared with the popular business literature.

Triggering sustainable change

Dormann sent clear signals about how he intended to transform the organization even before he took over as CEO in the spring of 1994. In speeches and publications after his nomination by the supervisory board in the summer of 1993, Dormann made no secret of the fact that he expected change to be an ongoing process. He wanted to challenge established ways of thinking in Hoechst and shake up longstanding power bases. Having seen how recent attempts to achieve change in the company had become stuck because they did not have the buy-in from enough key players, Dormann officially kicked off the transformation process by giving a major speech to the top 120 senior executives of Hoechst and the general managers of the associated companies in Europe, and by setting up a task force with handpicked senior managers. The speech set out his intention to position Hoechst as one of the world's top three suppliers in each of its business areas, a goal that unleashed a great deal of excitement in the company. He communicated a sense of urgency for making change happen, and announced that he had already taken steps in this direction by assigning a task force to come up in six months' time with recommendations for the best possible new strategies, structures, and processes needed to attain the desired market position.

During their introduction to organizational theories at the outset of the course, the students read quite a bit about the importance of crises as triggers for organizational learning, so they discuss the implications of the fact that Hoechst did not appear to be in a crisis when Dormann launched the transformation process. Did the management perceive a looming crisis earlier than its competitors in Germany? The discussion usually leads to the conclusion that a

key leadership skill in organizational transformation is to create a sense of urgency before a crisis has actually set in, so as to maximize the leeway for preparing and implementing decisions.

Dormann did not fill the task force with consultants, nor did he draw on his management board. Instead, he selected second and third level managers from different Hoechst businesses all around the world, a diverse mix of individuals he had come to know and respect. One of the members later commented: "If you look at the combination that was in the group, the interesting part was that many people were from the periphery." For example, Claudio Sonder was a Brazilian and responsible for Hoechst's Latin American operations, and Ernie Drew and Bob Harris were Americans (CEO of Hoechst Celanese and head of the fibres business in the U.S., respectively). Dormann modeled the leadership style he would continue to exercise in the coming years. He gave the task force free reign: he did not chair nor even attend the meetings, but was always available for informal conversations, as were some other members of the management board. The team worked together for six months, reviewing the company from the inside and getting an external perspective by benchmarking Hoechst with respected companies in different industries. The students are usually struck by how fast the task force had to deliver such a comprehensive review, considering that the members each still had to fulfill their normal management responsibilities during the six-month assignment. Another topic that the students discuss avidly is the informal mode of communication with the Board members. Shouldn't a Board keep close control of such a strategic task force? The discussion leads to the recognition of the effectiveness of the informal approach: the Board gave the task force leeway to work independently while also keeping close enough to the development of the group's ideas that the final report was easily accepted.

Speeches and task forces abound in corporations, but their messages and ideas are lost without follow-up. All too often reorganizations don't work because those responsible for implementing them lose their courage half-way through. Dormann and other managers had experienced blocked change

processes in Hoechst's recent past, so they were determined that this would not be allowed to happen in the new Hoechst. The three most important steps they took to ensure that change would be sustained were:

1. To change the power structure in the organization. This was done at numerous levels. Dormann altered the composition of his management board, taking advantage of the fact that several members reached retirement to reduce the size of the Board and to bring in new members with whom he could work well, including Horst Waesche, President of Hoechst Japan and Ernie Drew, President and CEO of Hoechst Celanese Corporation. He is also credited with having orchestrated the decision to break with tradition at the Supervisory Board level⁴: instead of moving the former CEO of Hoechst (Professor Wolfgang Hilger) into the chair of the supervisory board, as had always been done in the past, a recently retired member of the management board with experience in labor relations (Eberhard Bouillon) was selected for this role. Dormann knew that he would find more support for implementing large-scale change from the latter than from the former. In addition to the changes in the power structure at both board levels, the distribution of power within the organization shifted away from the headquarters and from country heads to the business unit directors as a result of the recommendations of the task force. Headquarter staff were radically trimmed down, and their roles changed from a control to a service function in order to support the new business unit structure.
2. To assign task force members the responsibility for implementing their recommendations. Dormann assigned to the very people who had generated the task force ideas the responsibility for implementing them, after the recommendations received official approval from the management board. This was the best way to ensure that the ideas would not slip into the oblivion of office files. In some cases this entailed giving their colleagues, who were country heads, the unwelcome news that their jobs would carry less power than in the past. The task force

⁴ The German corporate governance structure entails a two-tier board: the management board consisting of line managers, and the supervisory board on which shareholders and employees are represented. (See Appendix to Case A for more detail.)

members had had the joys of designing a new organization together, and they then had to carry through with implementing the tough decisions and dealing with the consequences.

3. To introduce a disciplined approach to assessing performance across the businesses. Possibly one of the most surprising aspects of the case (for us as researchers, for our students, as well as for some of the American Hoechst managers at the time) is that Hoechst had no standardized and rigorous process in place yet to assess the strategic position of each business area. The country managers had regularly produced marketing plans and budgets based on their past performance and their sense for the future period. But they had not been asked to deliver strategic plans according to which the performance of their units could be evaluated. Despite the reams of information that the large central staff had been collecting and the quite close involvement of Management Board members in the operations under their control around the world, Hoechst had little knowledge about the value and condition of its businesses. To correct the problem, the management board agreed with the recommendation by the task force to introduce a technique that Ernie Drew and Bob Harris had brought from Hoechst Celanese, the Strategic Management Process. It was a quite straightforward process, not the newest fad. Students tend to expect the management to choose a more current and “modern” strategy to solve what appear to be the current and “modern” problems of operating in a global environment. Yet they learn from this instance that the most popular business fad is not necessarily the most effective, since time-proven methods often generate better results.

Dormann and other senior Hoechst managers had seen the Strategic Management Process working well for Hoechst Celanese in the United States so they believed it would be a useful tool for the whole corporation. A team of managers drawn from different parts of the organization coached their peers in the 35 major business units through

the first run in 1994, using three categories to assess the strategic positioning of each unit⁵:

- *Invest* (show potential for growth, driven by technology);
- *Reinvest* (good earnings producers worth reinvesting in to maintain position);
- *Cash-generators* (businesses that made money with little further investment).

The results of the first assessment process were far worse than expected and shocked top managers. Over 80% of the businesses did not meet the performance criteria for their category. They were required to develop a plan for meeting the criteria within three years, or would be forced to change to a different category. Another learning process for Hoechst managers was the requirement to include benchmark data in their analysis and planning process as of 1995-96, in order to compare their business with that of key competitors worldwide. The benchmarking exercise cracked through the domestic focus of Hoechst managers, who had traditionally compared the company's performance only with that of the traditional German competition, Bayer and BASF.

Clarifying the vision: an ongoing process

A key insight that students gain from the reading the case and discussing the transformation process relates to the nature and role of vision in organizational change. The common expectation students come to class with is that visions are born fully-fledged from the mind of a heroic and visionary leader (possibly helped behind the scenes by expert consultants). What they discover in this case is that a corporate vision starts off as a "misty"⁶ indication of general direction and the leadership's challenge is to get others to engage with it, clarify its contours, and adapt it to changing circumstances.

⁵ Although the evaluation criteria at Celanese had included a fourth category, *Sell* (business to be divested), Hoechst was not looking for specific divestment candidates when it launched the Strategic Management Process in 1994, so it did not apply the Sell category in the analysis.

⁶ We are grateful to Piers Ibbotson, of the Royal Shakespeare Company, for sharing with us his concept of "misty vision." See Berthoin Antal and Krebsbach-Gnath 2002.

Dormann energized people throughout the company when he expressed his vision of making Hoechst first, second, or third in the world in each business area. In the past, Hoechst relied on its diversified portfolio to compensate for weak returns in one business area with strong profits in another. Bulk chemicals, for example, are a cyclical business, and in strong years it contributed to covering for gaps in other business areas, but in other periods it was a drain on profits. When Dormann announced his competitive leadership vision for Hoechst, he signaled that he would no longer run the company according to the old strategy of compensation through diversification. Each member of the Hoechst group would have to pull its own weight. That speech reverberated around the Hoechst world, but it was just the first cut at outlining a vision, and the contours had yet to be delineated.

The findings generated by the Strategic Management Process had serious, and unexpected, implications for the vision. Dormann and his management board had intended to optimize the performance of the Hoechst businesses. Instead, the data they had received forced them to recognize that it would not be feasible to upgrade all areas to become among the top three suppliers. Hoechst could not afford to make all the necessary investments. Dormann informed the shareholders in 1995 that, “We are pulling out of those fields in which we have no chance of becoming a lead supplier.” Hoechst would have to learn how to divest itself of the businesses it could not develop.

Having spent the first weeks of the semester reading about various integration theories, including federalism, the students enjoy debating the options Hoechst could have pursued. For example, would it not have been more attractive to create a federation of fairly independent divisions instead? They find at least part of the answer in Wall Street, an institution not included in their political science theory texts. The decision to list Hoechst on the New York Stock Exchange meant that the management had to answer tough questions from the financial analysts in Wall Street. These analysts exerted enormous pressure on companies to generate high shareholder value in the 1990s, whereas Hoechst had satisfied its shareholders in Germany for decades with moderate returns.

The diversified scope of Hoechst did not fit well with the valuation procedures of the 1990s in Wall Street, where analysts tended to specialize on one industry or another. As a result, the next step in the development of the vision resulted from the pressure to deliver high shareholder value and to choose a focus.

The senior Hoechst managers previously exposed to the U.S. market agreed with the analysts that the company had to choose a focus. To them it appeared obvious that the focus should be on the area with the highest potential for profitability and low cyclical dependence. These criteria pointed towards pharmaceuticals. By contrast, the other business areas had lower multiples, and bulk chemicals carried the regular risk associated with a cyclical business. The decision to focus on pharmaceuticals and divest all other areas, including the bulk chemicals and dyes that Hoechst had produced since its founding, was a tough one for long-standing Hoechst managers to make. This was the point at which the clarification of the vision from its “misty” beginnings entailed the most dramatic and painful break from the past.

Looking carefully at the various processes in which the Hoechst managers were engaged, the students often empathize with them, because the company was pursuing two apparently contradictory strategies at the same time. Board members who had lived and breathed with their business areas for decades had to turn their attention to creating and negotiating new futures for the business outside the Hoechst umbrella. During the same period, Hoechst was acquiring other companies in order to strengthen the position of the pharmaceutical business. The largest acquisition was in the United States, the world’s biggest and most profitable market. Hoechst bought Marion Merrell Dow (MMD) in 1995. With it, Hoechst acquired a sales force knowledgeable about the American market; an additional, albeit unimpressive, pipeline; and some very competent managers.

As in previous acquisitions, Dormann looked for key assets in the new subsidiary’s human resources. He brought Dick Markham and Dr. Frank Douglas, two senior MMD executives he saw as world-class managers in the

pharmaceutical industry, over to headquarters in Germany, and gave them global responsibilities⁷. This decision tends to surprise the students as much as it did the German employees at the time, because there is often an underlying assumption that the acquiring company has to remove the managers and replace them with its own. It was not easy for German employees to see the reverse happening under Dormann's leadership. They still perceived their organization as German at heart, despite the longstanding international spread of its operations. Many resented the arrival of non-German managers into senior leadership positions; the introduction of management techniques that they perceived to be American; and the removal of key functions, such as research, to other parts of the world. The students find it hard to imagine a U.S. company initiating changes by bringing foreign management ideas and non-American managers to shape the company's strategy and change its culture. But they could imagine experiencing similar frustrations and anger as those of the German employees if the American company's top management did try such an approach.

The process of specifying Hoechst's vision continued, and in 1997 Dormann announced that the company would pursue its vision as a life science company. A major competitor, Novartis, had recently taken this route, a move well received in the financial community. The nature of pharmaceutical research had changed significantly over the past decade, with biotechnology assuming an ever-greater role. There were high expectations at the time that synergies could be generated from building on biotechnology and genetic engineering research for human health and for agriculture.⁸

In order for Hoechst to achieve its vision of being one of the top three companies in its field, it had to have a large enough research and development

⁷ Dick Markham had been President and Chief Operating Officer of Marion Merrell Dow (MMD), and after the acquisition he first became the Chief Operating Officer of Hoechst Marion Roussel (HMR), then in 1997 he became the Chief Executive Officer of HMR. Dr. Frank Douglas had been Executive Vice President of Global Research and Development at MMD, and took Worldwide Responsibility for Research and Head of Drug Innovation and Approval at HMR.

⁸ The promised synergies did not materialize. Novartis sold its agricultural division in 2000 and Aventis followed suit in 2001. The vision was focused once more on pharmaceuticals.

budget to generate innovative products and bring them to the global market, particularly the dominant and profitable U.S. market. Hoechst's pipeline of new products was improving, but was still relatively unimpressive in the late 1990s. Despite the acquisition of MMD, its presence in the United States remained too small. It needed to acquire new competences and strengthen its innovative potential. The other pressure at the time was the continuing wave of mergers and acquisitions in the industry. There were rumors that Hoechst might be taken over, because the mood was one of "eat or be eaten." Hoechst sought a partner for a merger and on December 1, 1998 announced that it had chosen a European solution, avoiding the risk of being treated as a junior partner in an American merger. The French-based multinational Rhône Poulenc was a good fit for the life science vision and it also had operations in the U.S. market that would complement those owned by Hoechst.

The vision of becoming a global company rather than a German-based multinational was achieved when the merger was launched in 2000 under a new name, Aventis, in a new location, Strasbourg, France, headed by a multinational management team under the leadership of Dormann and Jean-René Fourtou, the CEO of Rhône Poulenc. The choice of a new location was a very important symbolic act. Company headquarters serve as primary representations of a company's vision and culture. When students read about the merger of equals with a French partner and Aventis' subsequent move to new headquarters in Strasbourg, they really see how Hoechst had taken the final symbolic step away from its past, leaving its German roots behind in Frankfurt and becoming a transnational organization at the crossroads of Europe.

Looking at how the whole course of events that brought Hoechst to its new identity at the crossroads of Europe, the students often come up with the interesting analogy to the transformation process of the European Union over the past two decades. The European Community was not in a crisis in the 1980s, but rather were suffering from stagnation. Eurosclerosis was the term coined to describe the perceived ailment. A White Paper shook up many key

actors in different member states, very much like the “Aufbruch 94” speech reverberated throughout the Hoechst world. The close cooperation between statesmen like Delors, Mitterand and Kohl played a similar role in enabling significant strategic decisions to be made and implemented to come to a new and stronger European Union, similar to the close cooperation among the managers who worked together to achieve the change from Hoechst to Aventis. The students get a lot out of debating the analogy (and discovering its limits) between learning processes in high politics and such a paradigm shift in a multinational company.

Making organizational politics discussable

Achieving change does not require larger than life heroes nor the application of the newest management fads. It does, however, require political savvy. Unfortunately, the topic of organizational politics raises eyebrows among students and many managers. The concept is immediately associated with the disreputable, scheming behavior of film characters like J. R. Ewing in the Dallas television series, and it is assumed to be irreconcilable with the completely rational behavior management that is supposed to be based on. It is crucial that students explore and understand the role of organizational politics, especially in change processes, where people’s interests, hopes and fears are at stake. Leaders cannot be effective without bringing the right people together to design and implement change, and without managing diverging views and conflicting interests. The case study provides useful examples of how life-sized managers used organizational savvy to transform Hoechst into Aventis.

Bringing the right people together

The topic of “managing diversity” has been on the front pages of U.S. business magazines for some years, but it is rarely used there in reference to international diversity at the senior management level. The Hoechst case shows the students how managing diversity as a process of creating constellations of people with different backgrounds is a key dimension of political savvy. The skill most frequently mentioned about Dormann is his ability to identify the people with the right skills and credibility and to excite them about

the task at hand—then to let them get on with it. What makes this skill particularly effective politically is that he looks not only for individuals, he looks for constellations of people. His first task force was effective because it contained a diverse mix of managers from around the organization and some from headquarters, all men he knew and trusted to think differently within the Hoechst world. Dormann then brought into Hoechst Dick Markham and Frank Douglas from MMD as a strong tandem, one man had the business knowledge of the pharmaceuticals market and the other had the capacity to generate a pipeline of products to bring to the market. Dormann's decision to bring Ernie Drew from Hoechst Celanese onto the Hoechst management board was described by his colleagues as masterful because Drew brought the American management methods Dormann felt Hoechst badly needed, and he challenged many traditional ways of seeing and doing things in headquarters. Drew was characterized by some of his colleagues as a very useful "bull in a china shop," shaking up the organization that needed to undergo radical change. The resulting leadership constellation was very effective: Dormann supported Drew's power base, while retaining for himself the image of change agent, not conflict-maker.

Managing conflicting interests and diverging views

No matter how well managed change processes are, they always cause some internal conflict. Managers have to contend with the confusion, anger, and sadness that people feel when the goals and values on which they have built their careers are suddenly swept out from under them. A change in organizational vision and strategy usually engenders strong disagreement and the formation of factions that lobby for competing visions and alternative strategies. However, a striking feature of the transformation process in Hoechst is the low level of conflict it entailed. There was definitely confusion and there was resentment, particularly of the "American" management principles employees felt the new management had imposed upon them, but no major labor disputes occurred, to the amazement of many observers. Some management board members strongly disagreed with the divestments of key business areas on which Hoechst had been built, but they did not succeed in

building support for an alternative vision and strategy to the focus on pharmaceuticals and life sciences. One of the key learning points the students take out of their discussions of the case is the significant impact of extensive investment in communication by Hoechst managers like Dormann, Bouillon, and Douglas. It reminded them about similar situations in the public sector where a broad range of key competencies and actors had to be brought together to achieve change in one of the policy fields of the European Union. The low level of conflict in the case of Hoechst is attributable to the enormous amount of effort and attention that went into the political process of managing diverging views and conflicting interests at all levels of the organization. Students energetically discuss and reflect on how each of the key managers, in their own way, undertook with employees and employee representatives, as well as with external stakeholders. The concept of organizational politics took on a new and constructive meaning for them with these examples.

- From the outset, Dormann demonstrated an ability to use influence, persuasion, and foresight to avert power struggles. For example, observers commented that his selection of members for the task force in 1994 served a dual purpose. It ensured that he had a rich mix of views in the team. And, by bringing on board some of the strongest country heads (such as Sonder and Drew) for the planning process, he took them away from the field of potential resistance when the time came to implement the new organizational structure. Later, the different views on the need to focus versus the need to maintain a diversified strategy created tensions in the management board. The managers responsible for the chemicals business wanted to turn the division around. They also feared that narrowing the range of activities would make Hoechst vulnerable because there would be no way of compensating for problems that might emerge in the remaining business. They argued that, despite recent deficits in European industrial businesses, Hoechst had generally been very successful with its past strategy of diversification, and that it should therefore continue as its traditional German competitor Bayer was doing, namely remain a diversified chemical-pharmaceutical company. Not surprisingly, a power struggle

underlay the policy debate. The tensions were probably heightened by the fact that the future careers at Hoechst of several longstanding board members were closely associated with specific business areas. It was neither Dormann's style nor characteristic of the Hoechst culture for differences to be resolved through outright conflict. Ernie Drew, who was accustomed to working in American boards, tried to bring a more confrontational mode of discussion to the management board of Hoechst and even recommended to Dormann that he grapple with opponents in as aggressive a way as Jack Welch is reputed to do. But this Dormann refused to do. He continued to talk with dissenters and either obtained their support or "moved them to the sidelines," as one Board member put it.

- The election of Eberhard Bouillon (rather than the previous CEO of Hoechst) to chair the supervisory board was a break with tradition that Dormann is credited with having influenced behind the scenes. It was a politically savvy move because it removed the potential for an adversarial relationship with Dormann's prior boss, and added an ally with high credibility in negotiations with labor to the leadership team. Bouillon played a significant role in securing the low level of conflict that Hoechst experienced with employee representatives and the trade unions during the transformation process. Bouillon had years of experience in working with these stakeholders and he not only engaged with them himself, but also ensured that the senior management took the time needed to communicate with them about plans and processes.
- Frank Douglas encountered resistance as an American manager imported to head the research function of the whole pharmaceutical division, particularly since his role was to transform the function to become market-focused rather than academically oriented. He dealt with the resistance in several complementary ways. He caused an uproar by renaming the traditional research and development function to "Drug Innovation and Approval," a politically very symbolic action, and he used this as a platform for getting individuals to redefine their professional identity. The new term underscored

the cultural shift Douglas wanted to achieve in the function. Under the traditional label of “Research and Development” the researchers had oriented themselves towards academic criteria and had benchmarked their work primarily with colleagues in university labs. The new label served to communicate the importance of focusing on the development of products destined for approval on the world’s markets. He spent a great deal of time talking with and listening to the people in his function in order to understand concerns while also getting his views across. In addition, he gave his people the responsibility of developing procedures and criteria to select the projects that would continue to be pursued and identify those that would be discontinued. They took ownership of the otherwise potentially divisive process and he did not need to intervene. Equally importantly, he gained trust by modelling change behavior himself, since he was asking his staff to change: he learned to speak German fluently within the first year of his tenure in Frankfurt.

Conclusion: The importance of learning from the unspectacular

There is a strange discrepancy in the popular business literature, whose titles are featured in the airport bookstores liberal arts students see. On the one hand there is the tendency to look for heroes and remarkable exploits, which by definition are unique. On the other hand this literature is driven by the search for simple recipes that are easily replicated. The Hoechst case is a powerful learning tool specifically because it does not do any of these things. Instead of showcasing heroic leaders, it portrays life-sized leaders who use existing management approaches well, with political savvy, to achieve significant change. If a company that was as tradition-bound as Hoechst could find within its ranks enough managers who were capable of conceiving of better ways of organizing and running their business, then similar capacities lie dormant and ready to be mobilized in many other companies. If Dormann, a quiet man who is not a gifted dramatic public speaker, can generate and sustain the level of commitment to achieve change that was required throughout the six-year transformation process around the world, then so can other leaders, by

constructively using political savvy to put the right people together and actively manage diverging views and conflicting interests.

The Hoechst case only begins to scratch the surface of the topic of organizational politics. But it enables the students to discover that organizational politics is an integral part of organizational life, and organizational savvy is a key leadership competence. Having finally taken the topic out of the closet, students are sometimes tempted to formulate “one best way” to pursue organizational politics effectively and legitimately. Fortunately, an additional insight they gain from the case is that there are various ways of exercising political savvy constructively, not just one. Individuals have their preferred styles, and cultures, both national and organizational, differ according to the type of behavior considered appropriate and legitimate. Ideally, the students leave the Hoechst case with a sense of having started an intellectual exploration well worth continuing.

References

- Berthoin Antal, Ariane, in collaboration with Dierkes, Meinolf, Krebsbach-Gnath, Camilla, and Nonaka, Ikujiro. 2001. The Transformation from Hoechst to Aventis (2 part case study with teaching notes and video). Available through the European Case Clearing House or online at: http://www.wz-berlin.de/tau/ot/member/berthoin_antal_pub0.de.htm#case . The Chinese translation is available through the Shanghai Academy of Social Sciences.
- Berthoin Antal, Ariane, Krebsbach-Gnath, Camilla. (2002). "Capitalizing on Internal Outsiders to Transform Tradition-Bound Organizations", in: *Reflections* Vol.4, No2. pp. 25-33.
- Dierkes, Meinolf, Europe in Transition: Are its Institutions Able to Adapt? Course Reader PEIS 140. University of California at Berkeley. 2002

Additional selected resources that non-business professors will find useful for insights into organizational learning and managing change:

- Badaracco, Joseph L. "We Don't Need Another Hero." *Harvard Business Review*, September 2001, 121-6.
- Beer, Michael, Nohria, Nitin. "Cracking the Code of Change." *Harvard Business Review*, May-June 2000, 133-141.
- Collins, Jim. "Level 5 Leadership: The Triumph of Humility and Fierce Resolve." *Harvard Business Review*, January 2001, 67-76.
- Dierkes, Meinolf, Berthoin Antal, Ariane, Child, John, Nonaka, Ikujiro. Zhang, Xinhua, (Eds.): *Handbook of Organizational Learning and Knowledge*, Oxford University Press. Oxford. 2001. (Chinese edition: People's Publishing House, Shanghai, P.R. China. 2001.)
- Hegele, Cornelia and Kieser, Alfred. "Control the Construction of Your Legend or Someone Else Will. An Analysis of Texts on Jack Welch." *Journal of Management Inquiry*. Vol. 10, No. 4. December 2001, 298-309.
- Kieser, Alfred. "Rhetoric and Myth in Management Fashion." *Organization*. Vol. 4, No. 1, 1997, 49-74.
- Kotter, John C. and Dan S. Cohen. *The Heart of Change*. Boston. Harvard Business School Press. 2002.

**Veröffentlichungsreihe der Abteilung Organisation und Technikgenese
des Forschungsschwerpunktes Technik-Arbeit-Umwelt
Wissenschaftszentrum Berlin**

1996

- FS II 96-101 REGINA BUHR UND BORIS BUCHHOLZ: Frauen, Männer und 100 Jahre Qwertzuioöpü: Die Tastatur im Spannungsfeld zwischen Technikherstellung, Anwendung und Geschlechterverhältnis, 45 S.
- FS II 96-102 MEINOLF DIERKES: Sozialwissenschaftliche Forschung im Dienst der gesellschaftlichen Praxis, 22 S.
- FS II 96-103* SABINE HELMERS/UTE HOFFMANN/JEANETTE HOFMANN: Netzkultur und Netzwerkorganisation. Das Projekt "Interaktionsraum Internet", 83 S.
- FS II 96-104* TROND BULAND UND HAKON FINNE, SABINE HELMERS, UTE HOFFMANN, JEANETTE HOFMANN (Eds.): Management and Network Technology. Proceedings from the COST A3 Workshop in Trondheim, Norway, November 22-24, 1995, 184 S. (out of print)
- FS II 96-105* JÖRG MÜLLER: Virtuelle Körper - Aspekte sozialer Körperlichkeit im Cyperspace, 30 S.
- FS II 96-106 BÉNÉDICTE ZIMMERMANN: Die Vielfalt der Wirklichkeit und ihre Reduktion in der Statistik. Die Diskussion über die Kategorie "Arbeitslosigkeit" im Kaiserreich und ihr Nachhall im Rahmen der Europäischen Einigung, 34 S.
- FS II 96-107 BENEDICTE ZIMMERMANN: Pluralité du réel et réduction statistique. L'exemple du chômage sous le Kaiserreich et ses résonances européennes, 30 S.
- FS II 96-108 WEERT CANZLER UND LUTZ MARZ: Der Automobilpakt im 21. Jahrhundert, 23 S.
- FS II 96-109 LUTZ MARZ: Die Test-Maschine. Zur Früh- und Vorgeschichte der ChatterBots, 45 S.

* auch als elektronische Publikation verfügbar auf dem WWW-Server der Projektgruppe Kulturraum Internet. URL: <http://duplox.wz-berlin.de/dokumente.html>

- FS II 97-101 HEINZ HAUTZINGER, ANDREAS KNIE UND MANFRED WERMUTH (Hrsg.): Mobilität und Verkehr besser verstehen. Dokumentation eines interdisziplinären Workshops am 5. und 6. Dezember 1996 in Berlin, 47 S.
- FS II 97-102 LUTZ MARZ: Die Leonidow-Kugel. Zur technischen Paßfähigkeit moderner Architekturen. Poesie der Vergangenheit. Ein Essay zum Anlauf der "Masterplan"-Debatte, 107 S.
- FS II 97-103 LUTZ MARZ UND MEINOLF DIERKES: Schlechte Zeiten für gutes Gewissen? Zur Karriere, Krise und Zukunft anwendungsorientierter Wirtschafts- und Technikethik, 54 S.
- FS II 97-104* MARTIN RECKE: Identität zu verkaufen. Probleme und Entwicklungsoptionen des Internet Domain Name Service (DNS), 42 S.
- FS II 97-105 ANDREAS KNIE UND OTTO BERTHOLD, MIKAEL HÅRD, TROND BULAND UND HEIDI GJOEN, MICHEL QUÉRE, WOLFGANG STREICHER, BERNHARD TRUFFER UND SLYVIA HARMS: Consumer User Patterns of Electric Vehicles, 164 S.
- FS II 97-106* UTE HOFFMANN: Panic Usenet. Netzkommunikation in (Un-)Ordnung, 32 S.
- FS II 97-107* UTE HOFFMANN: Not Without a Body? Bodily Functions in Cyberspace, 41 S.
- FS II 97-108 ANDREAS KNIE UND LUTZ MARZ: Die Stadtmaschine - Zu einer Raumlast der organisierten Moderne, 29 S.
- FS II 97-109 ECKEHARD FOZZY MORITZ: Tokyo verkehrt. Einsichten und Aussichten zum Verständnis der Vergangenheit, Gegenwart und Zukunft von "Mobilität" im Großraum Tokyo, 60 S.
- FS II 97-110 ARIANE BERTHOIN ANTAL, MEINOLF DIERKES UND KATRIN HÄHNER: Business Perception of Contextual Changes: Sources and Impediments to Organizational Learning, 30 S.
- FS II 97-111 ARIANE BERTHOIN ANTAL: Führungskräfteentwicklung: Neue Lernformen und ihre Konsequenzen für die Lehrkräftequalifikation, 26 S.
- FS II 97-112 ARIANE BERTHOIN ANTAL: The Live Case: A Method for

- Stimulating Individual, Group and Organizational Learning, 42 S.
- FS II 97-113 ARIANE BERTHOIN ANTAL: Organizational Learning Processes in Downsizing, 43 S.
- FS II 97-114 FRIEDRICH GLOCK: Zur Soziologie des Konstruierens, 100 S.
- * auch als elektronische Publikation verfügbar auf dem WWW-Server der Projektgruppe Kulturraum Internet. URL: <http://duplox.wz-berlin.de/dokumente.html>

1998

- FS II 98-101 MEINOLF DIERKES UND LUTZ MARZ. Lernkonventionen und Leitbilder. Zum Organisationslernen in Krisen, 69 S.
- FS II 98-102 MEINOLF DIERKES UND LUTZ MARZ. Wissensmanagement und Zukunft. Orientierungsnöte, Erwartungsfallen und „4D“-Strategie, 36 S.
- FS II 98-103 MEINOLF DIERKES UND LUTZ MARZ. Leitbildzentriertes Organisationslernen und technischer Wandel, 43 S.
- FS II 98-104* TILMAN BAUMGÄRTEL. Reisen ohne Karte. Wie funktionieren Suchmaschinen? 33 S.
- FS II 98-105* VALENTINA DJORDJEVIC. Von „emily postnews“ zu „help manners“. Netiquette im Internet, 49 S.
- FS II 98-106 GABRIELE ABELS. Engendering the Representational Democratic Deficit in the European Union, 41 S.
- FS II 98-107 STEPHAN RAMMLER, GERHARD PRÄTORIUS UND KARLHEINZ W. LEHRACH. Regionale Verkehrspolitik und Klimaschutz. Landespolitische Interventionsmöglichkeiten zur Reduktion der verkehrsbedingten CO2-Emissionen in Niedersachsen, 67 S.
- FS II 98-108 HENNING BREUER. Technische Innovation und Altern - Leitbilder und Innovationsstile bei der Entwicklung neuer Informations- und Kommunikationstechnologien für eine alternde Menschheit, 79 S.
- FS II 98-109 ARIANE BERTHOIN ANTAL UND CAMILLA KREBSBACH-GNATH. Consultants as Agents of Organizational Learning: The Importance of Marginality, 36 S.

- FS II 98-110* TILMAN BAUMGÄRTEL. Das imaginäre Museum. Zu einigen Motiven der Netzkunst, 54 S.
- FS II 98-111 MEINOLF DIERKES AND CLAUDIA VON GROTE (Eds.). Public Opinion and Public Debates. Notes on two perspectives for examining public understanding of science and technology, 69 S.
- FS II 98-112* SABINE HELMERS, UTE HOFFMANN UND JEANETTE HOFMANN. Internet... The Final Frontier: Eine Ethnographie. Schlußbericht des Projekts "Interaktionsraum Internet. Netzkultur und Netzwerkorganisation", 134 S.

* auch als elektronische Publikation verfügbar auf dem WWW-Server der Projektgruppe Kulturraum Internet. URL: <http://duplox.wz-berlin.de/dokumente.html>

1999

- FS II 99-101 EMILY UDLER. Israeli Business in Transition, 45 S.
- FS II 99-102 MARK B. BROWN. Policy, design, expertise, and citizenship: Revising the California electric vehicle program, 49 S.
- FS II 99-103 STEFAN BRATZEL. Umweltorientierter Verkehrspolitikwandel in Städten. Eine vergleichende Analyse der Innovationsbedingungen von „relativen Erfolgsfällen“, 74 S.

2000

- FS II 00-101* SABINE HELMERS, UTE HOFFMANN UND JEANETTE HOFMANN. Internet... The Final Frontier: An Ethnographic Account. Exploring the cultural space of the Net from the inside, 124 S.
- FS II 00-102 WEERT CANZLER UND SASSA FRANKE. Autofahren zwischen Alltagsnutzung und Routinebruch. Bericht 1 der choice-Forschung, 26 S.
- FS II 00-103 MIKAEL HÅRD UND ANDREAS KNIE. Getting Out of the Vicious Traffic Circle: Attempts at Restructuring the Cultural Ambience of the Automobile Throughout the 20th Century, 20 S.
- FS II 00-104 ARIANE BERTHOIN ANTAL, ILSE STROO AND MIEKE WILLEMS. Drawing on the Knowledge of Returned Expatriates for

Organizational Learning. Case Studies in German Multinational Companies. 47 S.

FS II 00-105 ARIANE BERTHOIN ANTAL UND MEINOLF DIERKES. Organizational Learning: Where Do We Stand? Where Do We Want to Go?, 33 S.

2001

FS II 00-101 KATRIN BÖHLING. Zur Bedeutung von „boundary spanning units“ für Organisationslernen in internationalen Organisationen, 34 S.

2002

FS II 02-101 UTE HOFFMANN UND JEANETTE HOFMANN. Monkeys, Typewriters and Networks. The Internet in the Light of the Theory of Accidental Excellence, 24 S.

FS II 02-102 UTE HOFFMANN. Themenparks re-made in Japan. Ein Reisebericht, 126 S.

FS II 02-103 WEERT CANZLER UND SASSA FRANKE. Changing Course in Public Transport: The Car as a Component of Competitive Services. Choice-Research, Report No. 2, 58 S.

FS II 02-104 WEERT CANZLER UND SASSA FRANKE. Mit cash car zum intermodalen Verkehrsangebot. Bericht 3 der choice-Forschung, 67 S.

FS II 02-105 ARIANE BERTHOIN ANTAL, MEINOLF DIERKES, KEITH MACMILLAN & LUTZ MARZ. Corporate Social Reporting Revisited, 32 S.

FS II 02-106 MARTIN GEGNER. Die Wege des urbanen Verkehrs zur Daseinsvorsorge, 63 S.

FS II 02-107 MEINOLF DIERKES, LUTZ MARZ & ARIANE BERTHOIN ANTAL. Sozialbilanzen. Konzeptioneller Kern und diskursive Karriere einer zivilgesellschaftlichen Innovation, 18 S.

FS II 02-108 CHRISTIANA WEBER UND BARBARA WEBER. Learning in and of Corporate Venture Capital Organizations in Germany. Industry structure, companies' strategies, organizational learning capabilities, 19 S.

FS II 02-109 JEANETTE HOFMANN UNTER MITARBEIT VON JESSICA SCHATTSCHNEIDER. Verfahren der Willensbildung und

Selbstverwaltung im Internet – Das Beispiel ICANN und die At-Large-Membership, 155 S.

- FS II 02-110 KATHRIN BÖHLING. Learning from Environmental Actors about Environmental Developments. The Case of International Organizations, 40 S.
- FS II 02-111 ASTRID KARL. Öffentlicher Verkehr im künftigen Wettbewerb. Wie ein inkonsequenter Ordnungsrahmen und überholte Finanzierungsstrukturen attraktive öffentliche Angebote verhindern, 60 S.
- FS II 02-112 THOMAS SAUTER-SERVAES UND STEPHAN RAMMLER. Delaytainment an Flughäfen. Die Notwendigkeit eines Verspätungsservices und erste Gestaltungsideen, 83 S.
- FS II 02-113 ARIANE BERTHOIN ANTAL UND MEINOLF DIERKES. Organisationslernen und Wissensmanagement: Überlegungen zur Entwicklung und zum Stand des Forschungsfeldes, 39 S.

Bei Ihren Bestellungen von WZB-Papers schicken Sie, bitte, unbedingt einen an Sie adressierten **Aufkleber** mit, sowie **je Paper** eine **Briefmarke im Wert von Euro 0,51** oder einen **"Coupon Réponse International"** (für Besteller aus dem Ausland).

Please send a **self-addressed label** and **postage stamps in the amount of 0,51 Euro** or a **"Coupon-Réponse International"** (if you are ordering from outside Germany) for **each WZB-Paper** requested.

Bestellschein

Order Form

Wissenschaftszentrum Berlin
für Sozialforschung gGmbH
PRESSE- UND INFORMATIONSREFERAT
Reichpietschufer 50

D-10785 Berlin

Absender • Return Address:

<p><i>Hiermit bestelle ich folgende(s) Discussion Paper(s) • Please send me the following Discussion Paper(s) Autor(en) / Kurztitel • Author(s) / Title(s) in brief</i></p>	<p>Bestellnummer • Order no.</p>