# THE PROFESSIONAL BUREAUCRACY

Prime Coordinating Mechanism:

Key Part of Organization: Main Design Parameters:

Situational Factors:

Standardization of skills Operating core

Training, horizontal job specialization, vertical and horizontal decentralization

Complex, stable environment; nonregulating, nonsophisticated technical system; fashionable

We have seen evidence at various points in this book that organizations can be bureaucratic without being centralized. Their operating work is whavior (our definition of bureaucracy in Chapter 2). But it is also comblex, and so must be controlled directly by the operators who do it. Hence, for organization turns to the one coordinating mechanism that allows for fundardization and decentralization at the same time—namely, the stan-called *Professional Bureaucracy*, common in universities, general hospitals, broduction firms. All rely on the skills and knowledge of their operating professionals to function; all produce standard products or services.

### The Basic Structure

The work of the operating core

and indoctrination. It hires duly trained and indoctrinated specialistscontrol over their own work. In effect, the work is highly specialized in the professionals—for the operating core, and then gives them considerable the standardization of skills and its associated design parameter, training Most important, the Professional Bureaucracy relies for coordination on Here again we have a tightly knit configuration of the design parameters horizontal dimension, but enlarged in the vertical one.

serves. For example, "the teacher works alone within the classroom, relatants maintain personal contact with the companies whose books they 1965:976). Likewise, many doctors treat their own patients, and accountionary jurisdiction within the boundaries of the classroom" (Bidwell tively hidden from colleagues and superiors, so that he has a broad discretively independently of his colleagues, but closely with the clients he Control over his own work means that the professional works rela-

does—operations are performed in absolute silence, particularly following lights on equipment are indicative of what everyone is expected to do and chest opening and during the procedure on the heart itself: lines, beats and needs to be said [between the anesthesiologist and the surgeon] preceding an operation as long and as complex as open-heart surgery, "very little effect, by what they have learned to expect from their colleagues. During sionals is then handled by the standardization of skills and knowledge—in the chest-opening phase" (Gosselin, 1978). The point is perhaps best made the courses are standard, each knows more or less what the other teaches grated without the two professors involved having even met. As long as the policy and marketing courses of the management school may be intepatient on an operating table with one saying, "Who opens?" Similarly, in reverse, by the cartoon that shows six surgeons standing around a Most of the necessary coordination between the operating profes-

surgeon requires a long period of training, probably five or more years" (p in a paper read by Spencer (1976) before a meeting of the Internationa standardized the knowledge and skills, their complexity ensures that contime during the day preceding the operation" (p. 1182). But no matter how a single sheet, to "be reviewed mentally in sixty to 120 seconds at some plex" operations, the essential steps as chains of thirty to forty symbols on keeps his series of surgical "cookbooks," in which he lists, even for "comevoke "an automatic reflex" (p. 1179). So automatic, in fact, that Spencer 1178). An important feature of that training is "repetitive practice" to Cardiovascular Society. Spencer noted that "becoming a skillful clinical siderable discretion remains in their application. No two professionals—no Just how standardized complex professional work can be is illustrated

> same way. Many judgments are required. two surgeons or teachers or social workers—ever apply them in exactly the

returns periodically for formal retraining. tise. He reads the journals, attends the conferences, and perhaps also is generated and new skills develop, the professional upgrades his experat one point in time; the process of training continues. As new knowledge sity teaching. The entrance examination only tests the basic requirements mented about the Ph.D., the hurdle to entering the profession of univerexamines the trainee to determine whether he has the requisite knowlimparted to him," as humorist and academic Stephen Leacock once comer, that the person is "examined for the last time in his life, and is proedge, skills, and norms to enter the profession. That is not to say, howevnounced completely full," such that "after this, no new ideas can be ing. Once this process is completed, the professional association typically pletes the process of indoctrination, which began during the formal teachsupervision of members of the profession. On-the-job training also comedge is applied and the practice of the skills perfected, under the close of years in a university or special institution. Here the skills and knowledge internship in medicine and articling in accounting. Here the formal knowlone. There typically follows a long period of on-the-job training, such as But in many cases, that is only the first step, even if the most important of the profession are formally programmed into the would-be professional. sional Bureaucracy. The initial training typically takes place over a period Training and indoctrination are a complicated affair in the Profes-

The bureaucratic nature of the structure

dards that predetermine what is to be done. Thus: tion—like that of the Machine Bureaucracy—achieved by design, by stanstructure of these organizations is essentially bureaucratic, its coordinaserve the client and coordinate the professional work. In other words, the All this training is geared to one goal—the internalization of standards that

not for the doctor and the rest of the staff who go through this many times a day. (Perrow, 1970:74) impersonality and depersonalization. For the mother, the birth is unique, but course of her labor. It is also one of the hospital units most often accused of mother moves from room to room and nurse to nurse during the predictable has something resembling an assembly (or deassembly?) line wherein the ... obstetrics and gynecology is a relatively routine department, which even

operators and its line managers enforcing them-the standards of the own standards-its technostructure designing the work standards for its their standardization. Whereas the Machine Bureaucracy generates its But the two kinds of bureaucracies differ markedly in the source of

The Professional Bureaucracy 193

sional nature—the power of expertise. reaucracy relies on authority of a hierarchical nature-the power of ofby all the bureaucracies of the profession. So whereas the Machine Bustandards, which they make sure are taught by the universities and used from other Professional Bureaucracies. These associations set universal the self-governing associations its operators join with their colleagues Professional Bureaucracy originate largely outside its own structure, in fice—the Professional Bureaucracy emphasizes authority of a profes-

selves to standardization. Imagine a planner trying to define a cure in of professional work cannot easily be measured and so do not lend themplan and control it. rely extensively on the formalization of professional work or on systems to quality of an accountant's audit. Thus, Professional Bureaucracies cannot psychiatry, the amount of learning that takes place in the classroom, or the teacher in a classroom in order to program the work. Similarly, the outputs work-study analyst following a cardiologist on his rounds or observing a plex to be standardized directly by analysts. One need only try to imagine a the Professional Bureaucracy. The work processes themselves are too com-The other forms of standardization are, in fact, difficult to rely on in

achieve a good deal of the coordination necessary in the operating core extensively with peers. In any event, the use of the other four coordinating ship is predicated on a high degree of professional autonomy-freedom mechanisms is precluded by the capacity of the standardization of skills to from having not only to respond to managerial orders but also to consult pede the professional's close relationships with his clients. That relationdinating mechanisms. Both direct supervision and mutual adjustment im-Much the same conclusion can be drawn for the two remaining coor-

# The pigeonholing process

applied to predetermined situations, called contingencies, also standard ing core, it is helpful to think of it as a repertoire of standard programs and requiring thorough analysis. Like stereotypes, categories allow us to nosis; and (2) to apply, or execute, that program. Pigeonholing simplifies which indicates which standard program to use, a task known as diagbasic tasks: (1) to categorize the client's need in terms of a contingency sometimes known as pigeonholing. In this regard, the professional has two business of building and maintaining categories" (p. 8). The process is ized. As Weick (1976) notes of one case in point, "schools are in the in effect, the set of skills the professionals stand ready to use—that are To understand how the Professional Bureaucracy functions in its operatmove through the world without making continuous decisions at every matters enormously. "People are categorized and placed into pigeonhole because it would take enormous resources to treat every case as unique

> become a manager registers in the university's business school. ingrown toenail does not visit a cardiologist; the student who wants to gets PERT; the one with managerial conflicts, OD. Of course, clients often nymical tricks—MBO, MIS, LRP, PERT, OD. The client with project work help out by categorizing themselves. As noted earlier, the person with an And the management consultant carries his own bag of standard acrolecture program; faced with twenty instead, he runs the class as a seminar. ly, a professor finds 100 students registered in his course and executes his declares him to be manic-depressive, and initiates psychotherapy. Similarmoment" (Perrow, 1970:58). Thus, a psychiatrist examines the patient,

prehensible in their deep structure but unfamiliar in their detail" (1977:98). well-stocked kit of well-designed tools to handle problems that are compleasure in handling difficult matters; it is a pleasure in using skillfully a pleasure that the good professional experiences in his work is not simply a Simon captures the spirit of pigeonholing with his comment, "The

considerable discretion in his work. the uncertainty in this way is one of the reasons the professional requires ever uncertainty does remain in the jobs of single professionals. Focusing performance of the work, but only that attempts are made to contain whating his skills. This is not to say that all uncertainty can be removed from the deal of attention to coordinating his work with his peers, focus on perfectrelatively autonomous professionals. Each can, instead of giving a great cracy to decouple its various operating tasks and assign them to individual, It is this pigeonholing process that enables the Professional Bureau-

we call Adhocracy. No standard contingencies or programs exist in that attive solution to a unique problem—requires a third configuration, which standard program. Fully open-ended diagnosis—that which seeks a creworlbed. The organization seeks to match a predetermined contingency to a sional Bureaucracy, diagnosis is a fundamental task, but it is circumwe kick when tapped on the knee. No diagnosis is involved. In the Profeswith a stimulus, it executes its one standard sequence of programs, just as hocracy. The Machine Bureaucracy is a single-purpose structure; presented the Machine Bureaucracy, the Professional Bureaucracy, and the Ad-In the pigeonholing process, we see fundamental differences among

was according to the knowledge, skills, and work processes they use, or hemistry department can be called functional because they group specialaplain the point: A hospital gynecology department and a university time both a functional and a market-based one. Two illustrations help them, the structure of the Professional Bureaucracy becomes at the same m categorize themselves, in terms of the functional specialists who serve functional and market bases for grouping. Because clients are categorized, In pigeonholing process creates an equivalence in its structure between the It is an interesting characteristic of the Professional Bureaucracy that

in the special case of the Professional Bureaucracy distinction between functional and market bases for grouping breaks down ents—women in the first case, chemistry students in the second. Thus, the market-based because each unit deals with its own unique types of cli-

# Focus on the operating core

only other part that is fully elaborated is the support staff, but that is of behavior formalization or planning and control systems-suggest that the training of operators, their vertically enlarged jobs, the little use made the operating core is the key part of the Professional Bureaucracy. The All the design parameters that we have discussed so far—the emphasis on computer facilities, and many, many other support units. mater funds, publishing houses, archives, athletics departments, libraries formalized. Thus, universities have printing facilities, faculty clubs, alma possible, to aid them and have others do whatever routine work can be the professionals, it makes sense to back them up with as much support as focused very much on serving the operating core. Given the high cost of

work. Because the need for planning and the formalizing of the work of the Adhocracy), they coordinate the work of the operating core. But in the elaborated in the Professional Bureaucracy. In other configurations (except geting, a small planning office, and a center to develop the professors' cept, as we shall see, in the case of the nonprofessional support staff). In professionals are very limited, there is little call for a technostructure (ex-Professional Bureaucracy, they can do little to coordinate the operating acceptance). Likewise, the middle line in the Professional Bureaucracy is skills in pedagogy (the latter two fighting a continual uphill battle for 1,200 professors, the only units that could be identified by the author as McGill University, for example, an institution with 17,000 students and technocratic were two small departments concerned with finance and bud-The technostructure and middle line of management are not highly

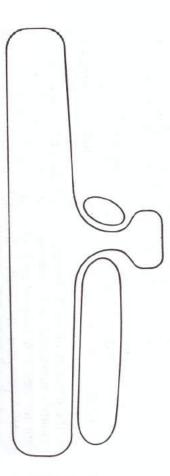


Figure 10-1. The Professional Bureaucracy

this writing functions effectively with sixty professors and a single managthem. As noted earlier, the McGill Faculty of Management at the time of managers at the level of first-line supervisor, or, for that matter, above adjustment between them, the operating units can be very large, with few thin. With little need for direct supervision of the operators or mutual

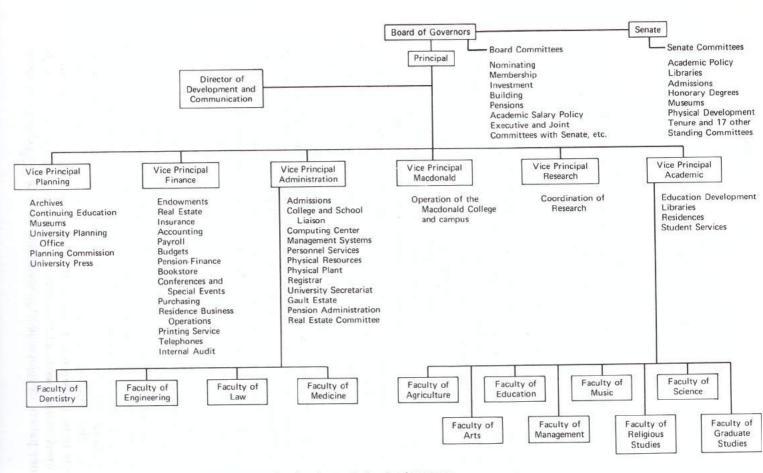
the organigram of McGill University, shown in Figure 10-2. and a fully elaborated support staff. All these characteristics are reflected in our logo, as a flat structure with a thin middle line, a tiny technostructure, Thus, Figure 10-1 shows the Professional Bureaucracy, in terms of

# Decentralization in the professional bureaucracy

and thereafter reserve the right to censure him for malpractice. trol of his colleagues, who trained and indoctrinated him in the first place Often, each works with his own clients, subject only to the collective conbottom of the structure, with the professionals of the operating core. dimensions. A great deal of the power over the operating work rests at the is a highly decentralized structure, in both the vertical and horizontal Everything we have seen so far tells us that the Professional Bureaucracy

he requires, he is tempted to pick up his kit bag of skills and move on. my in his work. When the professional does not get the autonomy he feels professional mobility, which enables him to insist on considerable autonowork too complex to be supervised by managers or standardized by analysts, but also his services are typically in great demand. This gives the The professional's power derives from the fact that not only is his

kidney patient develops heart trouble, that is no time to change hospitals incorrect or the needs of the client change during execution. When the requires at least a surgeon, an anesthesiologist, and a nurse; an MBA often need the services of more than one at the same time. An operation son professionals band together to form organizations is that the clients elients to be transferred between them when the initial diagnosis proves some physicians have their private patients, others receive them from the finally, the bringing together of different types of professionals allows program cannot be run with less than about a dozen different specialists. hospital emergency department or from in-patient referrals. Another reasome professionals must join the organization to get clients. Although lecture halls, libraries, and printing facilities. Organizing also brings the ater, so he shares it with others, just as professors share laboratories, common organization. One surgeon cannot afford his own operating theprofessionals together to learn from each other, and to train new recruits. thing, professionals can share resources, including support services, in a in the first place. There are, in fact, a number of good reasons. For one One is inclined to ask why professionals bother to join organizations



Note: This unofficial organigram was drawn by the author based upon University documents.

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Figure 10-2. Organigram of McGill University (circa 1978)

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democratic structure, same organization stand ready to provide the necessary service. What we have seen suggests that the Professional Bureaucracy needs tax advice, administrative structure it is comforting to know , at least for the professionals that other departments in the

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influence by virtue of one's knowledge and skills. In other words, a good staff. In the professional hierarchy, power resides in expertise; one has sionals, and a second machine bureaucratic and top-down for the support administrative hierarchies, one democratic and bottom-up for the professionals' experience and expertise. As they gain experience and reputation, among them. But it does require the pecking order to mirror the profesoperators themselves. That does not, of course, preclude a pecking order deal of power remains at the bottom of the hierarchy, with the professional academics move through the ranks of lecturer, and then assistant, associmove up to residents before they become members of the so-called medical ate, and full professor; and physicians enter the hospital as interns and staff. In fact, in many hospitals, this staff does not even report to the exboard of trustees. (Indeed, Charns (1976) reports that 41 percent of the ecutive director-the chief executive officer-but reports directly to the man. Unlike the case in the professional structure, here one must practice and status reside in administrative office; one salutes the stripes, not the responsible to no one!) In the nonprofession hierarchy, in contrast, power physicians he surveyed in academic medical centers claimed they were status. But "research indicates that a professional orientation toward seradministration, not a specialized function of the organization, to attain archies are kept quite independent of each other, as shown in Figure 10-3. in organizations" (Blau, 1967-68:456). Hence, these two parallel hierprocedures are opposite approaches toward work and often create conflict vice and a bureaucratic orientation toward disciplined compliance with What frequently emerge in the Professional Bureaucracy are parallel

# The roles of the professional administrator

deans of the universities? Are they powerless? Compared with their peers the executive directors and chiefs of the hospitals and the presidents and Where does all this leave the administrators of the professional hierarchy,

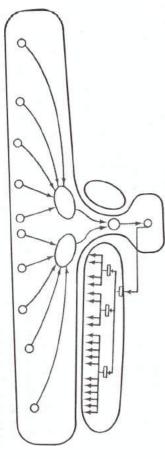


Figure 10-3. Bureaucracy Parallel Hierarchies in the Professional

does perform a series of roles that gives him considerable indirect power in administrator may not be able to control the professionals directly, but he good deal of power. But that is far from the whole story. The professional in the Simple Structure and the Machine Bureaucracy, they certainly lack a

archies, and it often falls to the professional administrators to resolve Coordination problems also arise frequently between the two parallel hierdown together and negotiate a solution on behalf of their constituencies. dispute. Rather, the unit managers—chiefs, deans, or whoever—must sit administrator impose a solution on the professionals or units involved in a mathematics department or the business school? Who should perform sionals. Who should teach the statistics course in the MBA program—the gynecologists who specialize in women? Seldom, however, can a senior mastectomies in hospitals-surgeons who specialize in operations or best, leading to all kinds of jurisdictional disputes between the profesturbances in the structure. The pigeonholing process is an imperfect one at First, the professional administrator spends much time handling dis-

negotiating with outside agencies—emerge as primary ones in professional cially. Thus, the external roles of the manager-maintaining liaison contacts, acting as figurehead and spokesman in a public relations capacity, woo these outsiders to support the organization, both morally and finanexternal pressures. On the other hand, the administrators are expected to expected to protect the professionals' autonomy, to "buffer" them from tions, and so on—on the outside. On the one hand, the administrators are professionals inside and interested parties—governments, client associalevels—serve key roles at the boundary of the organization, between the Second, the professional administrators—especially those at higher

reconcile conflicts in favor of his unit or who can effectively buffer the sit. The administrator who succeeds in raising extra funds for his organizaof uncertainty. And that is exactly where the professional administrators powerful—member of the organization. professionals from external influence becomes a valued—and therefore tion gains a say in how these are distributed. Similarly, the one who can very sources of administrator power. Power is, after all, gained at the locus between outsider and professional. In fact, however, these roles are the one professional and another, between support staffer and professional, the professionals, or else as pawns caught in various tugs of war-between perform as signs of weakness. They see these people as the errand boys of Some view the roles professional administrators are called upon to

abhors administration, desiring only to be left alone to practice his profesministrator. The professional faces a fundamental dilemma. Frequently, he Ironically, the professional becomes dependent on the effective ad-

administrators, in which case he must surrender some of his power over sion. But that freedom is gained only at the price of administrative effort oriented to research. To ensure the fullest support for research in his deed, to administrators who, by virtue of the fact that they do not wish to decision making. And that power must be surrendered, it should be addin which case he has less time to practice his profession, or to leave it to raising funds, resolving conflicts, buffering the demands of outsiders. This a lack of interest in research by virtue of seeking full-time administrative leave administration to full-time administrators, those who have expressed specifically time away from research. What is the use of spending time commitment to teaching versus research are decided. But that takes time. partment, he should involve himself in committees where questions of the he does and damned if he doesn't. Take the case of the university professor practice the profession, probably favor a different set of goals. Damned if leaves the professional two choices: to do the administrative work himself protecting what one has no time left to do? So the professor is tempted to

serving their interests effectively. The managers of the Professional Bumost powerful member of the Professional Bureaucracy-even if that reaucracy may be the weakest among those of the five configurations, but professional work, especially to those who do it well. But that, it should professionals who care to devote effort to doing administrative instead of power can easily be overwhelmed by the collective power of the than individual professionals—the chief executive remaining the single they are far from impotent. Individually, they are usually more powerful keeps his power only as long as the professionals perceive him to be be stressed, is not laissez-faire power: the professional administrator We can conclude that power in these structures does flow to those

# Strategy formulation in the professional bureaucracy

Bureaucracy. entire organization—loses a good deal of its meaning in the Professional tion of a strategy-a single, integrated pattern of decisions common to the difficult to measure, their goals cannot easily be agreed upon. So the novery different form in these kinds of organizations. Since their outputs are istrator's power. At the outset it should be noted that strategy takes on a reaucracy perhaps best illustrates the two sides of the professional admin-A description of the strategy-formulation process in the Professional Bu-

ships with his clients, and his loose ones with his colleagues—it becomes many cases, each selects his own clients and his own methods of dealing logical to think in terms of a personal strategy for each professional. In Given the autonomy of each professional—his close working relation-

> passed a resolution declaring failure to use it tantamount to malpractice. was, in effect, censured when one of the associations of medical specialists McGill studies, a hospital that refused to adopt a new method of treatment outside control of strategy can sometimes be very direct: in one of the to cope with them gain acceptance by the professional associations. This and are modified as new needs emerge and as the new methods developed and how—are inculcated in the professionals during their formal training them from the outside. These strategies—concerning what clients to serve organizations in a given profession exhibit similar strategies, imposed on strategies that the professionals pursue. Thus, to an important extent, all institutions outside the organization play a major role in determining the skills they have learned. That is, the professional associations and training sionals are significantly constrained by the professional standards and fessionals do not select their clients and methods at random. The profeswith them-in effect, chooses his own product-market strategy. But pro-

en's hospitals, and veterans' hospitals; all conform to standard medical own needs and interests. There are, for example, mental hospitals, wompractice, but each applies it to a different market that it has selected. each organization within the profession to adapt the basic strategies to its Largely, but not completely. There are still degrees of freedom that allow organization as well as of the professional associations on the outside. Bureaucracy are largely ones of the individual professionals within the We can conclude, therefore, that the strategies of the Professional

the method is new and controversial, through outside professional associalance of new projects through the complex administrative structure (and if trepreneurs" willing to expend the efforts needed to negotiate the accepare proposed by members of the operating core—by "professional ennew specialty department in an accounting firm. Most of these initiatives hospital, to establish a new degree program in a university, to develop a are able to convince it to undertake—to buy a new piece of equipment in a effect over time of the projects, or strategic "initiatives," that its members the Professional Bureaucracy's own strategies represent the cumulative How do these organizational strategies develop? It would appear that

system every day; the professional entrepreneur may promote only one are necessary to see a project through it. The administrator deals with the mittee system as well as many personal contacts within it, both of which another, the administrator has a full knowledge of the administrative comall, administration is his job; he no longer practices the profession. For one thing, the administrator has time to worry about such matters. After administrator to help him negotiate his project through the system. For the interest of the operating professional. So he depends on the full-time far from passive. As noted earlier, administration is neither the forte nor What is the role of the professional administrator in all this? Certainly

have the requisite managerial skills—for example, those of negotiation and new project in his entire career. Finally, the administrator is more likely to

sionals want nothing more than to be left alone, the administrator moves strategic initiatives that the administrator himself wishes to take. But in more effective. In the Professional Bureaucracy, this translates into a set of change his organization in his own way, to alter its strategies to make it beyond helping the operating professionals. Every good manager seeks to rely on his informal power, and apply it subtly. Knowing that the profespose his will on the professionals of the operating core. Instead, he must these structures—in principle, bottom-up—the administrator cannot imjected out of hand had they been proposed all at once he may achieve over time changes that the professionals would have recarefully—in incremental steps, each one hardly discernible. In this way, But the power of the effective administrator to influence strategy goes

#### Bureaucracy Conditions of the Professional

mal training programs, yet stable enough to enable these skills to become environment that is both complex and stable—complex enough to require cedures that are difficult to learn, yet are well defined. This means an nization is dominated by skilled workers-professionals-who use prosituational factor in the use of the Professional Bureaucracy. well defined-in effect, standardized. Thus, the environment is the chief the use of difficult procedures that can be learned only in extensive for-This third configuration appears wherever the operating core of an orga-

trast, the skilled employees bring the standards into the organization with its procedures become routinized. In the Professional Bureaucracy, in conorganization. Thus, it passes through a period of Simple Structure before start-up time because the standards need to be worked out within the matter, of young ones as well. The Machine Bureaucracy has a lengthy to have more fully developed staff-support structures. But that does not professional organizations may tend to be somewhat more formalized and ing on his own adheres to the same professional standards as 2,000 workprofessionals to a large extent work independently. One accountant workbe a relatively minor factor for the same reason, and also because the they are functioning as if they had been there for years. Size would seem to in a new hospital or a group of lawyers in a new law office, and in no time them when they join, so there is little start-up time. Put a group of doctors preclude the existence of small Professional Bureaucracies, or, for that In contrast, the factors of age and size are of less significance. Larger

> the stage of Simple Structure in their formative years. ing in a giant firm. Thus, Professional Bureaucracies pass quickly through

regulating, certainly not highly automated. The professional resists the usually directly and personally. So the technical system cannot be highly quire considerable discretion in their work. It is they who serve the clients, his basis of autonomy, and drives the structure to the machine bureaucratic because that makes them programmable by the technostructure, destroys rationalization of his skills—their division into simply executed steps cated, nor automated. The professional operators of this configuration renot in the Professional Bureaucracy—neither highly regulating, sophisti-Technical system is an important situational factor only for what it is

instruments it uses to apply that knowledge base—is not. ship between the professional and his clients. Thus, in the pure form of the Professional Bureaucracy, the technology of the organization-its tends to be regulating and often automated, impersonalizes the relationcation, and maintenance of the equipment; its operation, because that knowledge base-is sophisticated, but its technical system-the set of hocracy. These teams are concerned in large part with the design, modifiby forcing him to work in multidisciplinary teams, as he does in the Adsophisticated instruments—such as the computer in the accounting firm or scalpel, the accountant a pencil. Both must be sharp, but they are otherthe coronary-care unit in the hospital—reduce the professional's autonomy perform independently what can be exceedingly complex functions. More wise simple and commonplace instruments. Yet both allow their users to Nor can the technical system be sophisticated. The surgeon uses a

configuration has emerged as a major one. mous growth of this sector in the last few decades, we find that this in fact, applies standard programs to well-defined problems. Hence, the as Adhocracy.) A good deal of the service sector of contemporary society, their clients have a natural aversion to the looser, organic structures such structure, with characteristics of the Adhocracy. But this tendency is mitiespecially in teaching institutions—the hospital is driven toward a hybrid Professional Bureaucracy tends to predominate there. And with the enortrue can be used on regular patients. Institutions entrusted with the lives of gated by the hospital's overriding concern with safety. Only the tried and that call for more sophisticated equipment—apparently a growing number, at least to the extent that their technical systems are simple. (In those areas standard programs to well-defined problems. The same is true of hospitals, trate not on innovating in the solution of new problems, but on applying social-work agencies all rely on this configuration as long as they concen-Schools and universities, consulting firms, law and accounting offices, and sonal-service organization, at least the one with complex, stable work. Thus, the prime example of the Professional Bureaucracy is the per-

So far, all our examples have come from the service sector. But Professional Bureaucracies can be found in manufacturing, too, notably where the environment demands work that is complex yet stable, and the technical system is neither regulating nor sophisticated. This is the case of the craft enterprise, an important variant of the Professional Bureaucracy. Here the organization relies on skilled craftsmen who use relatively simple instruments to produce standard outputs. The very term craftsman implies a kind of professional who learns traditional skills through long apprentice training and then is allowed to practice them free of direct supervision. Craft enterprises seem typically to have tiny administrations—no technostructures and few managers, many of whom, in any event, work alongside the craftsmen.

Many craftsmen were eliminated by the Industrial Revolution. Their jobs—for example, the making of shoes—were rationalized, and so control over them passed from the workers who did them to the analysts who designed them. Small craft enterprises metamorphosed into large Machine Bureaucracies. But some craft industries remain—for example, fine glasswork and handmade pottery, portrait photography, and gastronomic cuisine. In fact, as these examples indicate, the term *craft* has today come to be associated with functional art, handmade items that perform a function but are purchased for their aesthetic value. Evidence suggests that one major industry, construction, has also remained largely in the craft stage.

The markets of the Professional Bureaucracy are often diversified. As noted earlier, these organizations often bring together groups of professionals from different specialties who serve different types of clients. The hospital includes gynecologists to serve women, pediatricians to serve children, and so on; the university has its philosophy professors to teach those interested in general knowledge and its engineering professors for those in search of specific career skills. Hypothesis 11 would lead us to the conclusion that such market diversity encourages the use of the market basis for grouping the professionals. In fact, we have already seen this to be the case (although we also saw that the market basis for grouping turns out to be equivalent to the functional one in Professional Bureaucracies, as a result of the way in which professional services are selected).

Sometimes the markets of Professional Bureaucracies are diversified geographically, leading to a variant we call the *dispersed professional bureaucracy*. Here, the problem of maintaining loyalty to the organization becomes magnified, since the professionals do their autonomous work in remote locations, far from the administrative structure. The U.S. Forest Rangers, for example, are dispersed across the United States, each one on his own, as are CIA agents and certain consultants. As a result, their organizations must rely extensively on training and indoctrination, especially the latter. The employees are selected carefully, trained extensively, and indoctrinated heavily—often by the organization itself—before

they are sent out to the remote areas to perform their work. Later, they are brought back to the central headquarters for fresh doses of indoctrination, and are often rotated in their jobs to ensure that their loyalty remains with the organization and does not shift to the

The Professional Bureaucracy is also occasionally found as a hybrid combination with characteristics of the Adhocracy that we can call the professional bureauladhocracy. Another hybrid—the simple professional bureauladhocracy. Another hybrid—the simple professional bureauladhocracy. Another hybrid—the simple professional bureaunnevertheless take their lead from a strong, sometimes even autocratic, orchestra, an organization staffed with highly skilled musicians who play standard repertoires. Some people have described it as a dictatorship of the based on direct supervision. In fact, after their revolution, the Russians flicts among the musicians necessitated the reintroduction of a central leader.

Finally, we might note briefly the effects of the situational factors of power, notably fashion and the influence of the operators. *Professionalism* is result, *Professional Bureaucracy is a highly fashionable structure—* and for good reason, since it is a rather democratic one. Thus, it is to the hance the skills it requires, to keep the analysts of the technostructure from trywide standards to protect those skills. In these ways, the operator can his work and the decisions that affect it.

# Some Issues Associated with Professional Bureaucracy

In the Professional Bureaucracy is unique among the five configurations in the inswering two of the paramount needs of contemporary men and women. It is democratic, disseminating its power directly to its workers (at least my, freeing them even of the need to coordinate closely with their peers, and all the pressures and politics that entails. Thus, the professional has herve his clients in his own way, constrained only by the established standards of his profession.

relationship to develop. Here the technical and social systems can function tor and the client, this configuration removes them, allowing a personal Unlike the Machine Bureaucracy, which places barriers between the operamotivated individuals, dedicated to their work and the clients they serve in complete harmony. As a result, professionals tend to emerge as responsible and highly

bly be highly motivated in performing that procedure. apply them in a perfected, not an experimental procedure, and will probaabout to serve him will draw on vast quantities of experience and skill, will Bureaucracy can take satisfaction in the knowledge that the professional tested and approved by the profession. So the client of the Professional programs on regular patients until those programs have been thoroughly of mistakes has been minimized. Hospitals do not even get to execute new whose experiences he has read about in the journals—that the possibility has been executed so many times—by this surgeon as well as by the many patients when they climb onto his operating table. They know the program ter expects few surprises when he opens his kiln; so, too, do Dr. Spencer's sionals and their clients in Professional Bureaucracies. The Provençal potmistakes" (p. 1181). That captures nicely the secure feelings of profescluded, "He didn't do anything I couldn't do, except he didn't make any behind champion Charles Goren during a three-day tournament and conductive reasoning. He quotes approvingly the bridge aficionado who stood are "convergent"—vascular surgeon Spencer (1976) refers to them as deglazes he applies to identical pots. The professional's thought processes fect, like the Provençal potter who has spent his career perfecting the time, forever reducing the uncertainty until they get them just about perfree of interference. They repeat the same complex programs time after Moreover, autonomy allows the professionals to perfect their skills,

discretion, and of innovation that arise in these configurations correct deficiencies that the professionals themselves choose to overlook. control of the work aside from that by the profession itself, no way to major problems of the Professional Bureaucracy. For there is virtually no What they tend to overlook are the major problems of coordination, of But in these same characteristics of democracy and autonomy lie the

# Problems of coordination

complex work with its ill-defined outputs. But the standardization of skills standardization of work processes and of outputs are ineffective for the adjustment are resisted as direct infringements on the professional's aucore only by the standardization of skills. Direct supervision and mutual is a loose coordinating mechanism at best, failing to cope with many of tonomy, in one case by administrators, in the other by colleagues. And The Professional Bureaucracy can coordinate effectively in its operating the needs that arise in the Professional Bureaucracy.

> authority above him and the horizontal power of professional expertise to systems of power pulling in different ways, the vertical power of line sionals and the support staff. To the professional, that is simply resolved: He gives the orders. But that only catches the support staffer between two There is, first of all, the need for coordination between the profes-

between the operations and organizational behavior departments of his business school and so was denied tenure. versities, the pigeonholing process can be equally artificial, as in the case of right department, a time-consuming process when time is critical. In unithe professor interested in the structure of production systems who fell nal medicine, for instance—it means repeated transfers in search of the not arise. For others—the patient who falls between psychiatry and intermalady slots nicely into one of the specialties, problems of coordination do organs that correspond to the different specialties. For the patient whose system with interdependent parts than as a collection of loosely coupled medicine, for instance, the human body is treated less as one integrated get forced—artificially—into one category or another. In contemporary tion). Needs that fall at the margin or that overlap two categories tend to comprehend it, inevitably distorts it (this book admittedly being no excepis a continuous intertwined system. Slicing it up, although necessary to needs do not fall in the cracks between the standard programs. The world effectively, they can be. But that process can never be so good that client otherwise want to be left alone. As long as the pigeonholing process works who come together to draw on common resources and support services but reaucracies are not integrated entities. They are collections of individuals fessionals themselves. Unlike Machine Bureaucracies, Professional Bu-Perhaps more severe are the coordination problems among the pro-

ceived, in terms of programs, artificially distinguished. is spilled in the continual reassessment of contingencies, imperfectly condeal of the conflict of the Professional Bureaucracy. Much political blood The pigeonholing process, in fact, emerges as the source of a great

### Problems of discretion

deal with professionals who are either incompetent or unconscientious. nately, not all of them are. And the Professional Bureaucracy cannot easily priate for professionals who are competent and conscientious. Unfortuthe exercise of considerable judgment. Such discretion is, perhaps, approprofessionals, whose complex skills, no matter how standardized, require detriment of the organization's performance. But even where it works, problems arise. For it focuses all the discretion in the hands of single fessional jobs. As we saw above, that assumption often proves false, to the that the pigeonholing process contains all the uncertainties in single pro-The assumption underlying the design of the Professional Bureaucracy is

self—is exposed to a kind of Russian Roulette, almost literally so in the case procedures for applicants to the training schools. inevitable; little can be done aside from using the very best screening of medicine, where a single decision can mean life or death. But that is help precisely because he lacks the specialized knowledge to help himchoose among them-to choose in ignorance, since he seeks professional No two professionals are equally skilled. So the client who is forced to

about the real needs of his clients. This last case represents a means-ends simply concentrates on the program that he favors to the exclusion of all confuses the needs of his clients with the skills he has to offer them. He in Machine Bureaucracies but equally serious. In this case, the professional inversion common in Professional Bureaucracies, different from that found than his clients, or who becomes so enamored with his skills that he forgets refuses to update his skills after graduation, who cares more for his income design the same planning system for all their clients, no matter how dydeed, all people) need psychoanalysis; the consulting firms prepared to ensues. Thus, we have the psychiatrists who think that all patients (inpresents no problem as long as only those clients in need of that favorite the others—perhaps because he does it best or simply enjoys it most. This classes of 500 students or five; the social workers who feel the compulsion namic their environments; the professors who use the lecture method for program are directed his way. But should other clients slip in, trouble to bring power to the people even when the people do not want it. Of greater concern is the unconscientious professional—the one who

even define the words cure or healthy, how are they to prove that psychoown-to wash their dirty linen in public, so to speak. In extreme cases other is that professionals are notoriously reluctant to act against their discretion—censure by the professional association—is seldom used. Anreading? That is one reason that the obvious solution to the problems of better or worse than seminars or, for that matter, than staying home and classroom, how can it be demonstrated with reliability that lectures are When no one has been able to measure the learning that takes place in the analysis is better for manic-depressives than chemical therapy would be? of measuring the outputs of professional work. When psychiatrists cannot misguided discretion. are relatively rare. They do no more than expose the tip of the iceberg of they will do so; certain behavior is too callous to ignore. But these instances Dealing with this means-ends inversion is impeded by the difficulty

a convenient place to practice their skills. They are loyal to their profession, of their clients; it also encourages many of them to ignore the needs of the not to the place where they happen to practice it. But the organization has themselves part of a team. To many, the organization is almost incidental organization. Professionals in these structures do not generally consider Discretion not only enables some professionals to ignore the needs

> each other only too well! do not wish to be dependent on each other. One can say that they know administrative structure. Yet, as we also saw, professionals resist it furiously. Professors hate to show up for curriculum meetings; they simply tion. Cooperation, as we saw earlier, is crucial to the functioning of the tive committees, to see it through conflicts with the professional associaneed for loyalty, too—to support its own strategies, to staff its administra-

## Problems of innovation

other translates itself into problems of innovation. a result, the reluctance of the professionals to work cooperatively with each rangement of the pigeonholes—and so call for interdisciplinary efforts. As usually cut across existing specialties—in essence, they require a rearing programs can be perfected by individual specialists. But new ones In these structures, major innovation also depends on cooperation. Exist-

solving ones designed to create new programs for needs that have never to perfect programs for contingencies that can be predicted, not problemgeared to stable environments; they are performance structures designed suited to adapting to the production of new ones. All bureaucracies are inflexible structure, well suited to producing its standard outputs but ill-Like the Machine Bureaucracy, the Professional Bureaucracy is an

in half an hour; it takes at least forty-five minutes! alive solutions. As Lucy once told Charlie Brown, great art cannot be done them into pigeonholes; hardly enough even to begin to think about cre-It by the surgeon and "questions and comments" by the audience (p. significant complications"! Maybe enough to list the symptoms and slot 1181). An "entire" page and ten minutes of discussion for cases with hour weekly "mortality-morbidity" conferences, including presentation of third to an entire page"; six to eight of these cases are discussed in the onedescription of the sequence of events, with reports varying in length from a our three hospitals . . . are reported to a central office with a narrative ments, "All patients developing significant complications or death among this deductive reasoning better illustrated than in Spencer's (1976) comdon't offer educational administration here." Nowhere are the effects of back into the old departmental mode. "It must be a D.B.A. or a D.Ed.; we age the generation of new knowledge?—inevitably finds himself forced degree—for, after all, isn't the highest university degree meant to encourold pigeonholes. The doctoral student in search of an interdisciplinary sional who sees the specific situation in terms of the general concept. In the roots in convergent thinking, in the deductive reasoning of the profes-Professional Bureaucracy, this means that new problems are forced into The problems of innovation in the Professional Bureaucracy find their

designed to do. away from old routines or standards rather than perfecting existing ones. tive reasoning—that is, the interence of new general concepts or programs And that flies in the face of everything the Professional Bureaucracy is from particular experiences. That kind of thinking is divergent—it breaks The fact is that great art and innovative problem solving require induc-

professional and administrative entrepreneurs. painfully, after much political intrigue and shrewd maneuvering by the representatives; must agree on the change. So change comes slowly and change is diffuse. Everybody, not just a few managers or professional sional association with its own democratic procedures, power for strategic operator autonomy and bottom-up decision making, and in the profesable to force it down the hierarchy. In the Professional Bureaucracy, with agers of the strategic apex finally recognize the need for change, they are clashes inevitably ensue. Even in the Machine Bureaucracy, once the manan entrepreneurial member takes up the torch of innovation, great political servative bodies, hesitant to change their well-established ways. Whenever the professional associations that control their procedures tend to be con-So it should come as no surprise that Professional Bureaucracies and

calls for another configuration, as we shall see in Chapter 12. efforts on the part of multidisciplinary teams of professionals. And that change—new skills, new ways to slot them, and creative, cooperative system of pigeonholes that slots them. But dynamic conditions call for cracy encounters no problem. It continues to perfect its skills and its given As long as the environment remains stable, the Professional Bureau

### Dysfunctional responses

tion of work processes, or standardization of outputs. mechanisms. Specifically, they try to use direct supervision, standardizathe obvious: try to control the work with one of the other coordinating of external control of the professional and of his profession. So they do representatives in government—see the problems as resulting from a lack professional administrators, members of the society at large and their tion evoke? Most commonly, those outside the profession-clients, non-What responses do the problems of coordination, discretion, and innova-

and vague in results—are difficult to control by anyone other than the supervision, preferably with a narrow "span of control"—in keeping with professionals themselves. So the administrator detached from the world ly perhaps fired. But specific professional activities—complex in execution the professor who misses too many classes can be "spoken to" or ultimate sionals. That may work in cases of gross negligence. The sloppy surgeon of the tenets of the classical concepts of authority—to watch over the profes Direct supervision typically means imposing an intermediate level of

> assumption that professional work can be controlled, like any other, in a The imposition of such intermediate levels of supervision stems from the Friday afternoons to ensure that they have not left early for the weekend. reports of a number of principals, spend time telephoning them at 4:59 on between one Montreal school board and its schools and, according to the ersome exercises. As in the case of certain district supervisors who sit and bent on direct supervision is left nothing to do except engage in both-

Studs Terkel the effects of various such standards on his work: means-ends inversion. Like the policeman in Chicago who described to ing the standards instead of serving the clients. Back to the old forcing the professionals to play the Machine Bureaucratic game—satisfywhich program the wrong behaviors and measure the wrong outputs, standardized by planning and control systems. Except in misguided ways, not be formalized by rules and regulations, and vague outputs cannot be the work and the vagueness of its outputs. Complex work processes cancourage the professionals. And for the same reasons—the complexity of control of the professional work, often serve merely to impede and distop-down manner, an assumption that has proven false again and again. Likewise, the other forms of standardization, instead of achieving

get a point even if the case is thrown out of court. The arrest is all that counts. "When we got there, we saw these guys and they looked suspicious." They'll two people for UUW"-unlawful use of weapons. The report will say, somebody anyway, knowing he's not the one. The record says, "Locked up When they go to the scene and the man with the gun has gone, they'll lock up with the other areas." So we go out and hunt for a policy operator. . . . My supervisor would say, "We need two policy arrests, so we can be equal So many points for a robbery, so many points for a man having a gun.

to be subordinated to the neatness of the system. inst, rural and urban—as well as the individual styles of the teachers have the same page. The individual needs of the students—slow learners and where each day every child in the country ostensibly opens the same book nostructure believes it can program the work of the teacher, as in that of Montagna, 1968:144). And in school systems, when the government techjudge the non-accountant expert on the basis of that expert's knowledge" ast Germany described proudly to this author by a government planner, tressed as an end in itself because the CPA as administrator is not able to to control the management-consulting arms of their firms—"obedience is hally professional in nature. Similar things happen when accountants try Graphic illustration of the futility of trying to control work that is essen-

have to control the overall expenditures of its Professional Bureaucracies loss it comes under the control of the operator who does it. Society may The fact is that complex work cannot be effectively performed un-

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to keep the lid on them—and to legislate against the most callous kinds of professional behavior. But too much external control of the professional work itself leads, according to Hypothesis 14, to centralization and formalization of the structure, in effect driving the Professional Bureaucracy to Machine Bureaucracy. The decision-making power flows from the operators to the managers, and on to the analysts of the technostructure. The effect of this is to throw the baby out with the bathwater. Technocratic controls do not improve professional-type work, nor can they distinguish between responsible and irresponsible behavior—they constrain both equally. That may, of course, be appropriate for organizations in which responsible behavior is rare. But where it is not—presumably the majority of cases—technocratic controls only serve to dampen professional conscientiousness.

student, not even the school system or the school itself; it is not the hospital more than willing, in turn, "to vent his frustration on the lawbreaker" officer at the bottom of the pecking order in the "paramilitary structure" is between the two. Thus, Cizanckas, a police chief, notes that the police and his client, a relationship predicated on unimpeded personal contact done by the individual professional. If that professional is incompetent, no that delivers the baby, not the police force that apprehends the criminal, not where it is of no use to the client. It is not the government that teaches the for service from the professional and place it in the administrative structure, impersonal, ineffective service. inexpensive outputs. In the case of professional work, it leaves him with plan or rule fashioned in the technostructure, no order from an administrathe welfare department that helps the distraught family. These things are At least rationalization in the Machine Bureaucracy leaves the client with impede the competent professional from providing his service effectively. tor can ever make him competent. But such plans, rules, and orders can (paraphrased by Hatvany, 1976:73). The controls remove the responsibility Controls also upset the delicate relationship between the professional

Furthermore, the incentive to perfect, even to innovate—the latter weak at the best of times in Professional Bureaucracy—can be reduced by external controls. In losing control over their own work, the professionals become passive, like the operators of the Machine Bureaucracy. Even the job of professional administrator, never easy, becomes extremely difficult when there is a push for external control. In school systems, for example the government looks top-down to the senior managers to implement the standards, and the professionals look bottom-up to them to resist the standards. The strategic apex gets caught between a government technostructure hungry for control and an operating core hanging on to its autonomy for dear life. No one gains in the process.

Are there then no solutions to a society concerned about its Professional Bureaucracies? Financial control of Professional Bureaucracies and

legislation against irresponsible professional behavior are obviously necessary. But beyond that, must the professional be left with a blank check, free of public accountability? Solutions are available, but they grow from a recognition of professional work for what it is. Change in the Professional Bureaucracy does not sweep in from new administrators taking office to bringing the professionals under their control. Rather, change seeps in by the slow process of changing the professionals under their control. Rather, change seeps in by the profession, what they learn in its professional schools (norms as well as skills and knowledge), and thereafter how willing they are to upgrade on the professionals' sense of responsibility to serve the public, or, failing Professional Bureaucracies.