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by

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Influenced by Napoleonic France, continental European higher education tends, today, to be centralized as a department of government through a nation’s ministry of education. Most of the administrative services for higher education are centered in the ministry. The institute, college, or university tends to have a skeletal administrative staff, led by elected faculty officers and a small faculty body. Greek higher education follows this French pattern. And Greek higher education appears to be governed through the French principles of droit administratif and tutelle.

American higher education, public and private, organizationally tends to be decentralized down to the individual institution of higher learning. An elaborated administrative apparatus is developed at the institutional level. Federal and state governmental agencies have varying degrees of informative, advisory, consultative, coordinative service and/or direct administrative control over some 2,686 institutions of higher learning.1 The complexity of American higher education can be seen through the huge two volume 1970 edited work of Knowles, Handbook of College and University Administration.2

To date I do not know of any scientific study in administrative theory that even remotely suggests the superiority of one administrative tradition and style of academic governance over the other. There is much to be said for each. There is, no doubt, much to be said against both.

A common fact is present in both administrative systems of higher education. That common fact is that each particular university, college, or institute requires an efficient and effective cybernetic system of organizational intelligence so that incipient institutional crises can be ameliorated and educational

effectiveness humanely can be achieved. A significant key to cybernetic systems is the faculty. Regardless of a nation’s social structure that may support an elitist status and role for college and university faculty, there is no evading the fact that students are the clients of the professors, which students are to be served by the faculty as whole persons with needs and creatures of God. In this Orthodox Christian nation of Greece, this view should be axiomatic for the university-level faculty as well as the ministry of education, even though it be breached through the frailties of particular men. An effective cybernetic system of organizational intelligence recognizes and can document the fiduciary trust that the ministry of education and each university faculty member has with each of their student clients.

Recently, American higher education has developed an institutional-level mechanism for organizational intelligence. This mechanism is designed systematically to provide the university trustees, faculty, administration, and students with organizational intelligence about themselves in relation to each other and the wider community. The university is a community of teachers, students, administrators, staff personnel, and the trustees. Their organizational self-knowledge about their own interrelationships is required in order to cure institutional ills, forestall institutional crises, and plan institutionally for effective and humane education. This institutional mechanism has varied names. Most often it is known as the Office of Institutional Research or, as in my own university, the Office of Institutional Studies. The significance of this institutional mechanism is underscored by the fact that within the last decade a national organization of directors of such offices has come into being, viz., the Association for Institutional Research. The 1972-1973 membership of the Association for Institutional Research is 963 persons. The thrust and purpose of this paper is to suggest how American colleges and universities have used the Office of Institutional Research for systematic and cybernetically-directed organizational intelligence. This institutional-level mechanism might have some relevance for Greek institutions of higher learning. That judgment as to relevance rests, however, with those who have the responsibility and the care for Greek higher education.

**institutional research**

The purposes of institutional research have been discussed and even debated hotly. But Stecklein’s list appears comprehensive enough to merit presentation here:

1. **Institutional research service to faculty members:**
   a. To learn, by controlled experimentation, the potentialities, outcomes, or limitations of their instruction, e.g., supplementary techniques useful in instruction or which produce certain outcomes of instruction; in general, to provide a research basis for critical examination of teaching procedures and practices.
   b. To obtain a better understanding of the purpose of a course or a curriculum.
   c. To determine a basis for comparative judgments concerning instruction and curriculum building.
   d. To obtain a broad understanding of admissions practices, examinations procedures, grading practices, and work loads.
   e. To obtain a better understanding of the role of the faculty member in the administration of a college or university, e.g., of the pressures and forces causing certain administrative problems and/or actions, or of the desirability of a faculty voice in administrative policy making.
   f. To develop better understanding of the factors that influence costs of instruction and other functions of an institution of higher education.
   g. To obtain an understanding of the way in which curricular decisions can affect such things as space utilization, building costs, and various routine operations of an institution.

2. **Institutional research service to the administration:**
   a. To serve most of the purposes listed above.
   b. To identify and analyze factors that influence costs or efficiency of operation.
   c. To obtain overall pictures of the characteristics of the undergraduate and graduate student body, of the faculty, and of the curriculum.
   d. To provide continuous up-to-date data on institutional characteristics such as size and rank of staff, available space, number of research contracts, amount of staff effort expended upon research, public and professional services, etc.

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e. To bring to the attention of the administrators trends taking place in any of the characteristics mentioned above.
f. To provide data and information useful in obtaining financial support.
g. To provide data useful in explaining the mission and achievements of the institution.

3. Institutional research service to coordinating groups or other outside agencies.

This list provides a sort of holistic definition of what institutional research is conceived to be. This definition must be placed within the American higher education milieu of ever-escalating informational demands from within and from without. Institutional data-gathering and resultant studies are becoming high priority budget items, rapidly. These informational demands posit the requirement for university college management information systems which have the characteristics of ease in retrieval and high flexibility in use. Huge computer data banks and large scale computer algorithms make this information requirement possible of fulfillment. Standardized statistical reports as well as specialized studies, be they in space utilization, resources allocation, faculty evaluation, curricular experiment, budgeting, or cost analysis, are now being done with varying degrees of success.

Private enterprise, university faculty, offices of institutional research and governmental agencies have developed a whole raft of computer software and scholarly theory on the measurement and evaluation of higher education inputs and outputs. Among the leaders in the field is the federally funded National Center for Higher Education Management Systems of the Western Interstate Commission for Higher Education. This group of professionals has developed standard lexicons for the several higher education categories, such as, accounting, academic programs, faculty, facilities, students and governance mechanisms. Across-the-board institutional comparison by standard categories can thus be made systematically.

The work of this group is having wide impact on some 800 institutions in the fifty states. NCHEMS has produced an induced course load matrix generator, a cost simulation model, and a resource requirement prediction simulation model, all of which are being field tested.

Institutional research professionals have developed considerable scholarship and many techniques in enrollment prediction, cost work, space utilization and budgets. Less work has been done in curriculum evaluation, faculty evaluation and values analysis. A review of the field can be found in Dressel and Associates' handbook, scientific journals as well as the Proceedings of the Association for Institutional Research.

There is no implication made here that all or even a majority of the Offices of Institutional Research are at the level of funding or sophistication to even use computer simulation models. Certainly the state institutions are more quickly pushed in this direction as are the wealthier private institutions. However the first significant step to more sophisticated levels of institutional research is the planned development and installation of an institution-wide management information system. For a small nation like Greece, early standardization of the lexicon of higher education reporting categories would serve to prevent years of grief later if institutional-level idiosyncratic lexicons are first installed. Manual systems of record keeping are most inefficient to the task of continuing institutional self-study long range planning and governmental development.

University of San Francisco experience in institutional research

Permit the prefacing of the University of San Francisco's experience with institutional research with some background on the university.

Since 1855, the University of San Francisco has offered higher education in the city of St. Francis. Today, the University is a moderately-sized private institution of some 6000 full/part time students, 425 full/part time faculty and has an operating budget of over thirteen million dollars. The University of San Francisco is a Roman Catholic/Jesuit institution, that is open to all to study, and an equal opportunity employer under federal law.

Currently, the University is offering undergraduate degree (B.A. and B.S.) programs in twenty-two fields of arts, sciences, business administration, and nursing. The School of Law offers legal education leading to the Juris Doctor degree. Through the University's Graduate Division, the following masters' degrees and programs are offered: (1) Master of Arts: education, English, government, history, and theology; (2) Master of Arts in Teaching: biology, English, government, history, mathematics, religion, and sociology; (3) Master of Science: biology and chemistry; (4) Master of Business Administration; (5) State of California education credentials (licenses) in six areas: educational administration and supervision.


elementary teaching, secondary teaching, pupil personnel and counseling/guidance, community college teaching, and school librarianship. These degree programs are given through nine academic units: (1) College of Arts; (2) College of Science; (3) College of Business Administration; (4) School of Education; (5) School of Law; (6) School of Nursing; (7) Graduate Division; (8) Evening College; (9) Summer Session.

The management information system of the University of San Francisco is a mélange of manual and computerized records. But only one time series of data existed in 1971. Since that time and at considerable expense in hand labor, four sets of time series, beginning with FY 1968-1969, have been created. These time series are: (1) student credit hours; (2) student head count; (3) course histories: head counts and units; (4) course enrollment by faculty and term. All of these time series are disaggregated to the levels of courses, departments, schools/colleges, year and term, student status: undergraduate/graduate/professional, and student residence: full time and part time. Other time series are being developed in areas concerned with student and faculty characteristics, staff, and financial indicators.

The management information system of university, college, or institute is fundamental to all institutional self-study or cybernetic feedback. Hence in the absence of a machined data bank, such time series as these are preliminary data developments for serious institutional research. The following things have been done so that the University can get a handle on its fiscal problems. For the first time at the University and based upon the time series alluded to above, regression estimates were made in the area of student enrollments by student credit hours and head count for the development of FY 1973-1974 budget. From these same time series and for the first time in the University, a five year projection to FY 1978-1979 was made for long-range planning and University priorities development in that context. One affirmative result of these studies has been that the acrimonious division of opinion as to what the University facts are has disappeared. And University decision-making properly has settled on the problems of University priorities, short and long-range planning and the realism that is appropriate thereto.

Other studies have been done over time as well. A description and brief evaluative commentary was done on graduate education. At the time when there was a question about the abuse in the faculty use of the grade Inc., a study was done to objectify the issues. A 1900-1972 time series on educational costs at the University was produced to provide historical and empirical perspective thereon. Two empirical studies on degrees and other awards given by the University since 1863 were completed. This was done to provide some minimal measure of educational output over time. Surveys on University community attitudes on the assets and liabilities of the University, attitudes of graduating seniors, and faculty salary and age studies have been done. Some of these have been published; others are in-house concerns. Nonetheless, qualitatively these studies are positive informational feedback that stabilize the institution through reality-testing.

In my role in institutional research, I have aided individual faculty in their own research projects, aided the School of Education to develop its proposal to become a school, provided randomized sampling

1. James Steve Counelis, Graduate Education in the University of San Francisco (San Francisco, Ca.: University of San Francisco—Office of Institutional Studies, 1972).
4. The two studies are: (1) William J. Dillon, Academic and Professional Degrees and Other Certificates of the University of San Francisco: 1863-1971 (San Francisco, Ca.: University of San Francisco—Office of Institutional Studies, 1972; (2) William J. Dillon, University of San Francisco Awards: 1955-1972 (San Francisco, Ca.: University of San Francisco—Office of Institutional Studies, 1972).
5. The University of San Francisco cooperated with the State of California Joint Legislative Committee for the Master Plan in administering the ETS Institutional Goals Inventory. Also, the Office of Institutional Studies conducted for the President an open-ended questionnaire survey of the entire University community; trustees, regents, students, faculty, alumni, parents, administrators, and Jesuit community. This latter was an in-house report to the President, the findings of which were released by the President's Office.
7. These were in-house non-published studies submitted to the administration by memoranda.
of students for student and faculty surveys connected to behavioral science courses, aided the School of Nursing in its own faculty evaluation work, and served as a member on the University Committee on Research.

One of the major tasks of institutional research professionals is scholarship. An area of concern is model building for the development of computer algorithms. The application of mathematics and symbolic logic to the solution of generic problems is an activity of long standing. Computer science people, operations researchers, educational theorists, and behavioral scientists in all areas and in particular administration have done much here. 1 In my career, I worked in the area of higher education and its development that is moving rapidly to the symbolic and mathematical propositional levels. 2 The model for self-evaluative performance appraisal became the basis for University practice in priorities development and attitudinal assessment of the University through broad University surveys. The tuition-pricing by matrix has yet to be tried. The Office of Institutional Research in any university, the practical problems of tuition-pricing and self-evaluative performance appraisal in the University have been modeled at the symbolic propositional level. 3 The model for self-evaluative performance appraisal became the basis for University practice in priorities development and attitudinal assessment of the University through broad University surveys. The tuition-pricing by matrix has yet to be tried. The Office of Institutional Research in any university, college or institute provides an excellent vehicle for increasing the curriculum and program classification structure. College Social Science Quarterly, Interdisciplinary Course in the Social Sciences? Toward an Empirical Concept of the Guild: The American Education Professoriate, 1967; (3)------, «What is an interdisciplinary course in the Social Sciences?» Community College Social Science Quarterly, Vol. III, No. 2 (Winter 1973), pp. 29-31, 36; (4)------, Toward an Empirical Concept of the Guild: The American Education Professoriate, 1967-1969 (San Francisco, Ca.: University of San Francisco—Office of Institutional Studies, 1973). This last was an invitation-only paper given at the Texas Academy of Science, University of Houston, March 17, 1973.

1. The literature in this area is immense. See recent bibliography in the Appendix for a sampling of literature.


empirical fact, one must know that Greece is a participant in the Organization for Economic Cooperation and Development and cooperated with Italy, Portugal, Spain, Turkey, and Yugoslavia in the Mediterranean Regional Project. The purpose of this project was to prepare an assessment of educational needs to 1975 and arrive at detailed plans, including financial estimates, for meeting these needs. As a result of this program, a recent committee has made a report in the field of Greek higher education making specific recommendations in the area. Given this environment, permit me to raise some questions leading to possible implications of institutional research for the institutional-level of higher education.

(1) Has Greek Government participation in the OECD’s Mediterranean Regional Project generated within the government escalating informational needs in all areas of education?
(2) Has the Greek Ministry of Education developed its higher education plans upon the assumption of an empirical economic relationship between education and economic/social development?
(3) At the level of the Ministry of Education information are there requirements for institutional level data which local institutions are incapable of providing?
(4) At the level of the Ministry of Education and at the local institutional level, is higher education planning based upon empirical data from the institutional-level of higher education?
(5) Do the several university-level institutions in Greece recognize today a need for organizational intelligence for institutional self-improvement and rational decision-making? Whatever the answers to these questions may be, they all «zero in» on organizational intelligence for reality-testing and decision-making.

The degree of readiness of Greek higher education for university-level institutional research will be gauged by the answers given. Thus, the relevance of institutional research for Greek higher education can be established. The organizational need to know is not a function of the system of academic governance practiced. The organizational need to know is a function of the organizational perception of the degree of reality-testing to be necessary for institution health and well being. The chronic existence of institutional crisis is organizational pathology in the university or college or institute. The pathology is always an atrophied or severed reality-testing feedback system. That is the precise meaning of the term «crisis.»

The time line generating organizational crisis might be long or short. But no organization can survive prolonged crisis. Long-range planning, rational decision-making, and empirically-based organizational intelligence (both systematic and occasional or ad hoc organizational intelligence) provide for institutional continuity through reality-testing. Perhaps some form of institutional research at the local level of the university, school, or institute might be relevant. But the assessment of readiness and hence relevance of institutional research for Greek higher education rests with those who know and care.

Appendix

BIBLIOGRAPHY

The following bibliography is intended to suggest the comprehensive interdisciplinary scope of the ideas and techniques useful to behavioral science model-building, especially for university institutional research purposes. This bibliography is limited in size and of course biased by the writer’s concerns, such bias being used for closure purposes.

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(42) R. Duncan Luce (ed.), Developments in Mathematical Psychology (Glencoe, Ill.: The Free Press, 1960).
(49) James Maynard, Some Microeconomics of Higher Education: Economies of Scale (Lincoln, Neb.: The University of Nebraska Press, 1971).
Every thinker tries to select his own intellectual past, and is in turn shaped by it... In every generation and in every domain of study, there comes about a general agreement that a small set of works are «classic» in the sense of being somehow indispensable. For by «classic» writers, we do not mean merely those who have been consistently read; we mean also those who, whether read directly or not, have continued to be a point of orientation for the work of others.