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Publication Date

1986-08-01

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**Graduate School of Management
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The authors wish to thank GSM Visiting Associate Professor Lewis E. Leebug and doctoral student Julia A. Britt for their invaluable assistance on this project. They also wish to thank the deans who responded to the survey for the time and thought they contributed in the completion of the questionnaire. This report is a tribute to their effort.

**Computers and Information Systems Research Program
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Introduction

In 1984, and again in 1985, comprehensive surveys were conducted of the computing practices of business schools throughout the United States and Canada. In the first survey, 37 leading business schools were surveyed; for the second, all of the 241 schools currently accredited by the American Assembly of Collegiate Schools of Business (AACSB) were contacted. The response rates were 35 (95%) and 125 (57%) respectively. The results of these surveys are described in two reports, copies of which are available from the UCLA Graduate School of Management.¹

As part of the second survey, which was a much expanded version of the first, respondents were asked to list (1) "the major factors driving you toward the expanded use of computers" and (2) "the major constraints or bottlenecks delaying the expanded use of computers." The most frequent responses to the first question were, in order, "faculty demand," "student demand," and to "improve quality of instruction." For the second question, the responses were "funding," "space limitations," and "lack of qualified faculty."

At each of the schools, the questionnaires were completed by individuals who had been designated by their deans to act as respondents. In analyzing these results, and in looking ahead to the administration of the next survey, the question arose as to whether these respondents, who were speaking *for* their deans, had the same perspective *as* their deans. In other words, would the deans of the business schools surveyed express the same concerns, and in the same order, as did the individuals who actually filled out the questionnaires?

This question is important for two reasons, one general and one specific. The general issue is related to one of the primary reasons for undertaking the survey in the first place, namely, "to provide deans and other policy makers with information they can use in making allocation decisions and program plans with regards to computing."² If the concerns of the respondents were substantially different from those of their deans, the survey results would be less useful to the intended audience than might otherwise be the case. In other words, the survey report might be providing the right answers to the wrong questions.

¹ Jason L. Frand, *First Annual Computing Survey of North American Business Schools*, UCLA Graduate School of Management, Los Angeles, (1984); and Jason L. Frand and Ephraim L. McLean, *Second Annual UCLA Survey of Business School Computer Usage*, UCLA Graduate School of Management, Los Angeles, (1985).

² Frand and McLean, *op. cit.*

The second, and more specific, concern had to do with the design of the survey instrument itself for the 1987 survey. If some of the questions on the current questionnaire were of little interest to deans, these questions could be candidates for shortening or elimination. Similarly, if there were areas of strong concern, which are only briefly covered at present, they could be expanded.

1986 Deans Survey

With these two objectives in mind, a short one-page questionnaire was sent to the deans of the schools in the 1985 survey. In all, 241 business school deans were mailed personalized letters explaining the purpose of the survey and enlisting their cooperation in filling out the accompanying questionnaires. Also enclosed was a copy of a shortened version of the results of the 1985 survey which had been published in the *Communications of the ACM*.³ Of the 241 deans contacted, 114 responded (47%). Fifty-six of the schools responding had also participated in the 1985 survey and the remaining 58 had not. A majority of the schools were public institutions (72%). Table 1 lists 111 of the 114 schools that participated in the 1986 survey. Three schools could not be listed because their names were written illegibly on the questionnaire.

For the first and the third questions, relating to the top three general concerns and computer-specific concerns of deans, space was available for three short responses each. In most instances, the deans answered with a simple phrase or short sentence. However, when only a single word, such as "funding," was given, there was no way to know whether the response meant "how to acquire more" or "where to acquire more (e.g., legislatures, business, alumni)" or "how to allocate the existing funding", etc. Nevertheless, to the extent possible, the responses were categorized into major issues.

The second question asked for a description of how, if at all, computing related to the general issues of question one, and space was left for a paragraph of explanatory text. These responses were very specific to individual concerns, and thus could not be generalized enough for inclusion in this analysis.

³Jason L. Frand and Ephraim R. McLean, "Summary of the Second Annual UCLA Survey of Business School Computer Usage," *Communication of the ACM*, Vol. 29, No. 1, January 1986, pp. 12-18.

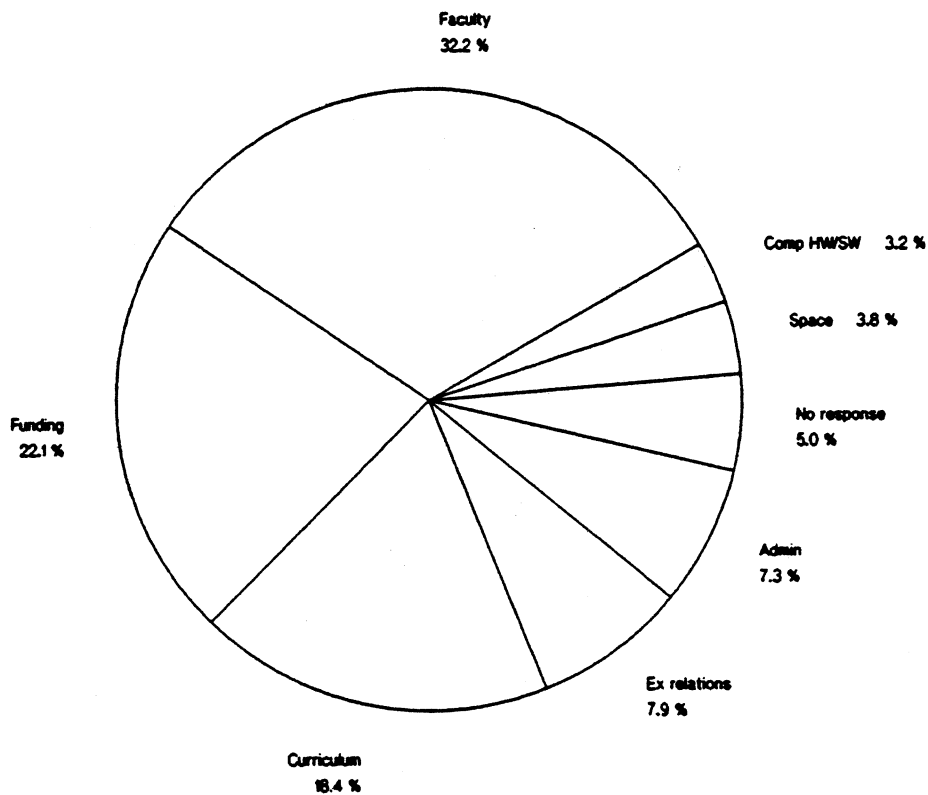
Table 1
Participating Schools

University of Akron	University of Missouri, Columbia
University of Alberta	Murray State University
Arizona State University	University of Nebraska, Lincoln
University of Arkansas	University of New Mexico
Arkansas State University	University of New York
Babson College	University of North Carolina, Chapel Hill
Ball State University	University of North Carolina, Greensboro
University of Baltimore	University of North Dakota
Boston College	Northeast Louisiana University
Bowling Green State University	Northeastern University
Bradley University	Northern Arizona University
University of Bridgeport	University of Notre Dame
University of California, Los Angeles	Ohio State University
California Polytechnic State University	University of Oklahoma
California State University, Bakersfield	Oklahoma State University
California State University, Chico	University of Oregon
California State University, Fresno	Oregon State University
California State University, Long Beach	Pacific Lutheran University
California State University, Los Angeles	Pan American University
California State University, Northridge	University of Pittsburgh
Canisius College	Purdue University
University of Central Arkansas	Rensselaer Polytechnic Institute
University of Central Florida	University of Rhode Island
University of Cincinnati	University of Richmond
Cleveland State University	Rollins College
University of Dayton	Rutgers-State University of New Jersey
University of Delaware	Saint Cloud State University
Duke University	St. Louis University
East Carolina University	San Jose State University
Eastern Washington University	Seton Hall University
Emory University	University of South Alabama
University of Florida	University of South Florida
Florida International University	University of Southern California
Fordham University	Southern Illinois University, Carbondale
Fort Lewis College	Southern Illinois University, Edwardsville
George Washington University	Stanford University
Georgetown University	Syracuse University
Georgia Southern College	Tennessee Technological University
University of Hawaii	University of Texas, San Antonio
University of Houston, Clear Lake City	Texas A and M University
University of Illinois, Chicago	Texas Technological University
University of Illinois, Champaign	Utah State University
University of Iowa	Valdosta State University
Kansas State University	Villanova University
Lehigh University	University of Virginia
University of Louisville	Virginia Polytechnic Institute
Loyola Marymount University	Wake Forest University
Loyola University, Chicago	Wayne State University
Loyola University, New Orleans	Western Carolina University
Marquette University	Western Kentucky University
University of Maryland	Winthrop College
Miami University	University of Wisconsin, Eau Claire
University of Michigan	University of Wisconsin, La Crosse
Michigan State University	University of Wisconsin, Madison
Middle Tennessee State University	University of Wisconsin, Oshkosh
Mississippi State University	

General Issues

Because computing is but one of the many issues currently facing deans, the first of the three questions on the 1986 questionnaire asked: "Please list the top three current *general* issues (not necessarily connected with computing) you face as dean in running your school." The major general issue categories are shown in Figure 1 and detailed in Table 2.

Figure 1:
Business Schools General Issues



Not surprisingly, the top three concerns, in terms of frequency of mention, were: (1) *faculty* (32.2%) with recruitment and retention the most common issue; (2) *funding* (22.2%) with fund raising and a general lack of funds cited most often; and (3) *curriculum and instruction* (18.4%) with curriculum development listed first. The other four were *external relations* (7.9%), *business school administration* (7.3%), *space* (3.8%), and *computer hardware and software* (3.2%).

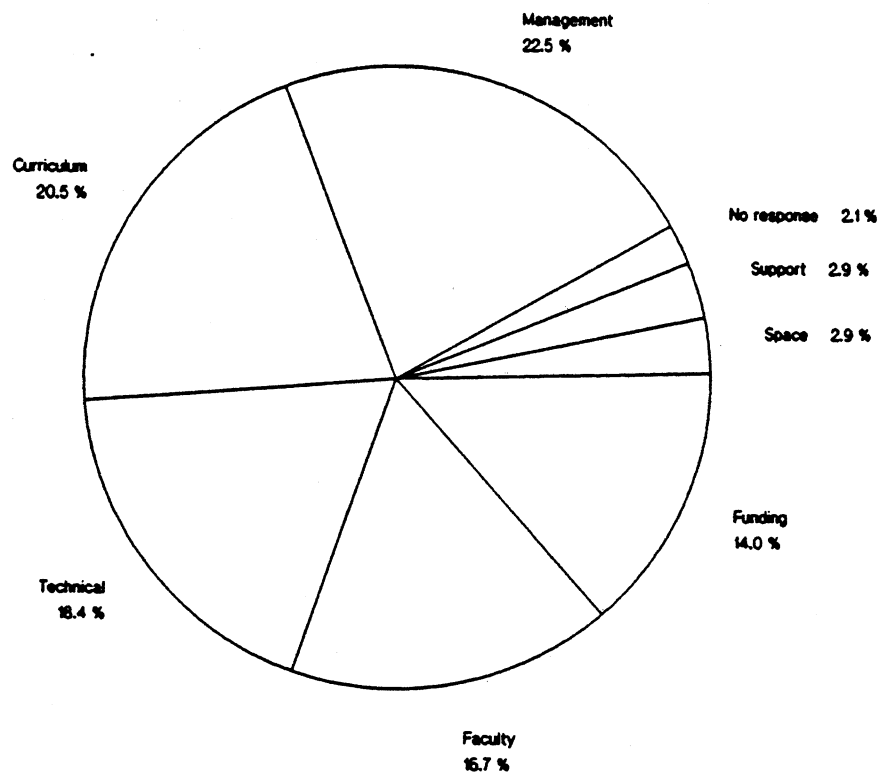
Table 2
General Issues Facing Business Schools
A Survey of 114 Deans
(3 issues per dean for a total of 342 responses)

Percent of Total	No. of Times Mentioned	Issue or Concern
32.2%	110	Faculty - Recruitment and Retention - Salaries - Research Productivity - Development
22.2%	76	Funding (money) - Fund Raising (General lack of funds) - For Research Support - For Faculty Salaries - Declining State/Local Government Funding
18.4%	63	Curriculum and Instruction - Keeping the Curriculum Current/ New Curriculum Development - Teaching Quality and Effectiveness - Shifts in Enrollments/Decreased Demand - Using Computers in the Curriculum - Student Recruitment and Placement - Miscellaneous
7.9%	27	External Relations - With the University - With the Business Community - With the Legislature
7.3%	25	Business School Administration - Balancing the Goals of the School - Managing Academic Personnel - Staff Support - Accreditation - Information Systems for the School - Miscellaneous
3.8%	13	Space - Need for Adequate Space
3.2%	11	Computer Hardware and Software - Acquisition, Upgrade, and Support
5.0%	17	No Response - Blank

Computing Issues

The third question on the survey asked: "Please list the top three current *computing* issues you feel are most important." The major computing issue categories are shown in Figure 2 and detailed in Table 3.

Figure 2:
Business Schools Computer-Related Issues



Here, two new issues came to the fore: *management or governance* of computing (22.5%) and *technical* computing issues (18.4%). The three items mentioned in the general question, *curriculum and instruction*, *faculty*, and *funding*, came in second (20.5%), fourth (16.7%), and fifth (14.0%) respectively on the computing-specific question.

From these specific computing-related issues, some areas are suggested where more detailed questions may be of assistance on future surveys. In particular, as may be seen in Table 3, the concern for "integrating computing into the curriculum" was the single most commonly mentioned item by the deans, with 45 responses.

Table 3
Computer-Related Issues Facing Business Schools
A Survey of 114 Deans
(3 issues per dean for a total of 342 responses)

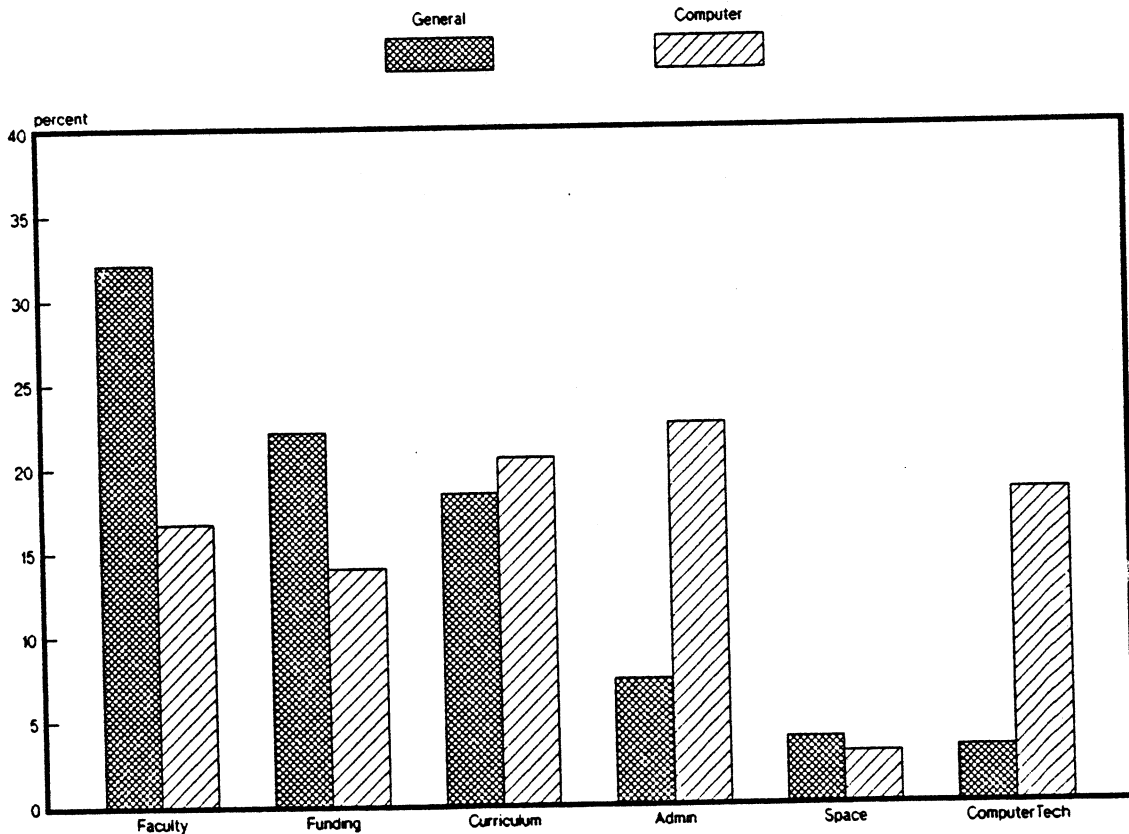
Percent of Total	No. of Times Mentioned	Issue or Concern
22.5%	77	Management or Governance - Decreased Computer Access - Managing Technological Change - Policies for Managing Computing - Decreased Computer Access for Faculty - Administrative Use of Computers - Relations with Other Campus Computing
20.5%	70	Curriculum and Instruction - Integrating Computing into the Curriculum - Developing an MIS Major - Developing Computer Courses - Computer Literacy - Miscellaneous
18.4%	63	Technical - Acquiring Appropriate Hardware and Software - Networking and/or Integrating Systems - Systems Compatability and Standards - Software Licensing - Software Standards - Miscellaneous
16.7%	57	Faculty - Developing and Training in Computing - Recruiting MIS Faculty - Recruiting Other Qualified Faculty
14.0%	48	Funding (money) - Acquiring and Upgrading Hardware, Software, and Networking - Support (i.e., Staff, Equipment, etc.) for Computing Facilities - Maintenance of Computing Facilities
2.9%	10	Computer Support Personnel - Providing Support Staff - Recruiting Support Staff
2.9%	10	Space - Need for Space for Computers
2.1%	7	No Response - Blank

This is obviously an area that needs more attention. Another area that merits similar expansion is "faculty development and training in computing" which had the next highest response rate, 36 responses.

A Comparison of Issues

Although the general and computer-specific issues show some similar patterns, it is nevertheless useful to compare them. This comparison is shown in Figure 3. *Faculty, funding, and curriculum* are high in both lists, totaling 72.6% of the deans' general responses and 51.2% of their computer-related responses, respectively. It is in the areas of *administration* and *technical* that significant differences are most noticeable. They represent nearly half (40.9%) of the deans' computer-specific concerns, while being only 10.5% of the expanded set of the deans' general concerns. As experience is gained in these areas, their importance may lessen.

Figure 3:
A Comparison of General and Computer-Related Issues



1985 and 1986 Results Comparison

Returning to the 1985 survey, it is interesting to compare the responses to the two 1985 questions mentioned earlier with these 1986 deans' responses. Table 4 summarizes this comparison.

Table 4
A Comparison Between
The 1985 Computing Survey and The 1986 Deans Survey

	1985 Computing Survey		1986 Deans Survey	
	Forces Driving Expansion	Major Constraints	General Issues	Computing Issues
1.	Faculty demand	Funding	Faculty	Computing management
2.	Student demand	Space limitations	Funding	Curriculum and instruction
3.	Quality of instruction	Lack of qualified faculty	Curriculum and instruction	Technical

Although there is some shift in the ordering, the two lists are remarkably similar, which is perhaps not surprising and is certainly, from the standpoint of this research, reassuring. Faculty, funding, and instruction are obviously at the core of any dean's concern, and these same issues will continue to figure centrally when computing is introduced into business schools.

In summary, the survey turned out to have fairly predictable results. The respondents for the deans answered very similarly as did the deans themselves. Deans are concerned about quality faculty and quality programs and the ability to raise money to support each of these goals. As computing becomes a more central part of the business school environment, it will necessarily impact each of these areas.