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ABSTRACT

A study explored the feasibility of research on the impact of flexible work patterns on the educational and training opportunities available to women in low-status jobs. Intended to provide a basis for a more informed discussion of policy questions pertaining to flexible worktime, the study involved a review of. related literature, a series of informal interviews, and the collection of preliminary data at selected worksites during 1981. These sources of data confirm the fact that concern over declining productivity, together with demographic shifts and workers' changing values, have made it more important than ever to develop more effective opportunities for education and training and to expand the use of flexible work patterns. During the study, an examination was made of recent attempts at adjusting working hours for education and training such as the use of part time, combined part time and tuition aid, 40-hour flexible schedules, and informal flexibility. This examination revealed positive, albeit tentative, connections between flexible hours and employer-provided learning programs. However, it also suggests that this linkage will affect women in low-status jobs on a significant scale only if other conditions also prevail. Therefore, more comprehensive research on the impact of flexibility is needed. (MN)

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Worker Learning and Worktime Flexibility

Gretl S. Meier

A Policy Discussion Paper

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THE INSTITUTE, a nonprofit research organization, was established on July 1, 1945. It is an activity of the W. E. Upjohn Unemployment Trustee Corporation, which was formed in 1932 to administer a fund set aside by the late Dr. W. E. Upjohn for the purpose of carrying on "research into the causes and effects of unemployment and measures for the alleviation of unemployment."



i

The Author

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Preface

This study explores the feasibility of research on how flexible work patterns might extend education and training opportunities. Although its findings are relevant to a wider employee population, this preliminary inquiry has concentrated on the combined impact of flexible worktime and training policies on women in low status jobs.

The underlying problem is that, although women are entering and remaining in the labor force in the U.S. at an unprecedented rate, 80 percent are still confined to the low skilled jobs in clerical, sales, operative, craft and service occupations. Many, without access to higher education before entering employment, are still unable to take advantage of employer-sponsored learning activities. In contrast to managers and professionals who participate in education and training programs in disproportionately high numbers, these workers are often barred by the more rigid scheduling of their work hours.

A partial solution to the inequity in access to learning opportunities may lie in the applicability of flexible work patterns: flextime, the compressed workweek, permanent part time, and job sharing. Might these women utilize new scheduling to better balance work and their primary home responsibilities and, at the same time, to take greater advantage of education and training in order to renew themselves and to find better jobs and new occupations?

The findings of this report are based on a review of related literature and, more specifically, on a series of informal interviews and preliminary data collected at



5

selected work sites during 1981. To identify the potential gains of the relationship between flexible work, patterns and learning opportunities as well as the problems that must be overcome, the sample-included companies with broad participation in training and education programs as well as firms offering new work schedules. These discussions have revealed the nature and range of additional data that would be required for more substantive study. Equally important, they have made a start at raising management interest in linking two areas of personnel policy which, until now, have been quite separate.

Education, training and retraining requirements pose an alarming national problem—not only because of the current high levels of recession-induced unemployment, but also for reasons of structural change. Structural transformations in the economy—as old jobs obsolesce and new jobs occur in the technical and service sectors—require a repatterning of labor force skills. Moreover, the changing nature of job supply and diminished internal mobility will harshly affect women and other minorities, especially, if enforcement of affirmative action guidelines weakens.

Employer sponsored learning, often termed "the shadow system of education," its extent and equity of access, will be subjected to greater pressures as the public sector role diminishes. Reduced federal expenditures for training, the new federalism, and government overtures for an expanded private sector role will strain employer sponsored schemes already in place. And although their long-range implications cannot yet be fully analyzed, the cuts in government aid to education will limit the development of the human capital re-

quired for industry and business needs in the not-too-

Despite its focus on employer-sponsored activities, this paper presumes that occupational orientation and re-orientation are but one part of worker learning. The other, reflecting individual human values, depends on a more broadly based content that aims to fulfill personal potential, off and on the job. The fusion of practical and theoretical knowledge has become even more critical as all Americans have been forced to adjust to the often overwhelming pace of social and political as well as economic change. Such learning can make "... a determinative difference between a reprieve of opportunity and a lifetime sentence to frustration, and obsolescence."

Learning is addictive. The line between education and training may be blurred when the latter moves beyond specific tasks to adaptable skills and provides the basis for the new common literacy in language and numbers. Instruction which takes place to enhance work rather than narrow job related skills may often encourage further learning. If new means can be found to promote the availability of broader training, then the longer-range educational goal may also be better served.

This report is intended to provide a basis for a more informed discussion of the policy questions, rather than to serve as a proposal for specific subsequent research. To this end, Part I first sets forth the "Perspectives:" the trends that may influence the use of flexible patterns and the provision of educational and training opportunities. It then reviews the practice of new work patterns and of employer-sponsored learning activities. Part II discusses some examples



of "Recent Experience," suggesting the types of data needed for more complete examination, but focusing on the necessary conditions to establish the relationship. Part III, "Future Research: Some Considerations," outline the principal research issues which have emerged during this exploratory study. The report concludes with a brief discussion of policy for employers.

I am grateful to The Carnegie Corporation of New York and to Barbara D. Finberg, vice-president for Program and Program Officer, for encouraging the initiation of this study and for the financial assistance that made it possible. I am also indebted to the W. E. Upjohn Institute and to the late E. Earl Wright, its director, for additional support and for the opportunity to publish this paper.

In the preparation of this study, a large number of individuals have generously shared their research and helped with advice. I especially wish to thank Paul E. Barton of the National Institute for Work and Learning, Nevser Stacy of the National Institute of Education and Janice N. Hedges, formerly of the Bureau of Labor Statistics. Above all, I am indebted to the managers and other employees of the 24 companies who provided data and other technical information. Although I have benefitted from these individuals in official and unofficial capacities, I am, of course, solely responsible for the conclusions of this study and for any errors of judgment or fact which it contains.

NOTE

1. Willard Wirtz, "Foreword," in Paul E. Barton, Worklife Transitions (New York, NY; McGraw-Hill Book Company, 1982), pp. vii.



1.	Perspectives	1
. .	Changes Affecting Workplaces and Worker Needs	1
•	New Work Patterns: Possibilities	6
	Employer-Sponsored Education	
	and Training	15
11.	Adjusting Work Hours for Education	
	and Training: Some Recent Experience	25
	Part Time: Progress and Problems	25
	Part Time and Tuition Aid: An Experiment	
	in Data'Collection	28
	40-Hour Flexible Schedutes	32
	Informal Flexibility	[*] 38
111.	Future Research: Some Considerations	47
IV.	Issues for Future Policy	61





I. PERSPECTIVES

Changes Affecting Workplaces and Worker Needs

Economic and social trends projected for the decade are likely to focus continuing on the need to deverop the skills. attention maintain the morale of American workers. declining productivity, together demographic shifts and workers' changing values, all suggest the importance of developing more effective opportunities for education and training. and for expanding the use of flexible patterns:

Declining productivity is already causing a searth for ways to improve workers' performance. Although few employers look to flexible schedules as part of the solution, many are discovering that the introduction of new work patterns--with its higher <code>_employee</code> morale resultant and effective use · of time--often gontributes increased productivity. More important, Yeven though conclusive empirical evidence of links to productivity is lacking, employers have investing increasingly larger sums in education The pressuré for a training. more application of new technology will now expanded retraining of workers: those who will be forced to switch occupations, others whose skill requirements may be increased in low level jobs. still others whose new jobs will require greater technological knowledge.

Productivity concerns are also affecting changes in management styles, particularly in medium and large sized firms. The development of new horizontal as well as vertical relationships, through "matrix" management, enhances the responsibility for ganizational effectiveness of

and managers. It has strongly all supervisors influenced the nature of corporate education and It may, in the future. 1/ contribute to further consideration of the and the means to promote performance of all employees. In some U.S. firms, although far than in other industrialized countries. awareness of education and training deficiencies arises with moves to enhance worker participation organizational problemsolving Other efforts in job redesign _decisionmaking. require re-examination of task analysis and better for these redefined preparation responsbilities. They may often call attention to changing the scheduling of work so that jobs may be more productive and more satisfying. .

New management styles are emerging also to meet changing worker values. A more widespread recognition of "quality-of-worklife" issues come about in part because of the slow but steady decline in job satisfaction. Because workforce with generally higher than ever credentials is dissatisfied education routinized jobs, it is seeking more varied job are asking, too, Some employees better control over their worktime. Men as well women are looking to balance work with other aspects of their daily and lifetime family and leisure needs. As many moré adults participate in informal and formal schooling, an increasing number are questioning the traditional life-cycle stages of education-work-retirement.

Demographic changes will further affect these issues as a more heterogeneous population is expected to include larger numbers of men and women with a lawered likelihood of job mobility.

3/ The coming decade will see a proportionately larger number of older workers as the age of the



working population rises with a decline of post-war "baby boom." This increase in the number of prime age workers with a higher level educational attainment than before suggests that opportunities to advance in organizations less than worker expectations. Education training will assume more importance as one of the several means to achieve horizontal well as vertical mobility. Furthermore, older people, who will become a large proportion of the population, likely to be working longer, a result inflationary pressures and of the extended mandatory retirement agé (raised to 70 private sector and eliminated in the public sector the 1978 Age Discrimination Act Amendments). Many older workers may be forced to prepare for second and third careers, often through jobs which are more flexibly scheduled. .

The expected rise in the numbers of poorly non-English speaking skilled, workers will also significant challenge to industry and business. It will tend to exacerbate the problem already disturbing employers, as many high school graduates now appear to lack basic skills in math At a time when a minimum of college and English. education or other "credentialing" has become the. prerequisite for a variety of blue-collar as well as white-collar jobs in the expanding service and information sectors, the lack of skill development in workers disadvantaged at an early age is likely to become even more acute.

Of primary importance, however, for the purposes of this paper, will be the issues arising from the "feminization of the labor market"--the expected continued increase in the proportion of workers who are women. 4/ About 52 million women, it is anticipated, will be in the labor force by 1990, an increase of about one million a year.



4

Nearly all of the projected additions will be aged 25-54, most will be married, and the majority will have minor children. The growing prevalence married couples together with the two-earner anticipated high number of parents who are single (even for some period of time) will undoubtedly bring to the forefront the search for new means to, achieve family-well-being and expand the demand for jobs which permit a better balance between home and work. Also strongly implied is a more critical role for education and training as women seek preparation to: 1) make transitions from home to school, 2) advance to higher job levels within traditionally female occupations and, 3) surmount the barriers which now make difficult their entry in the predominately and promotion professions.

overriding question raised increased labor force participation of women will be whether greater vertical and occupational mobility can be achieved. Otherwise, the numbers of women seeking employment will only to sharpen the competition for the same low paying jobs in traditionally female occupations the great majority of women workers #now which Indeed, because women are still entering stereotypically female, low level positions, according to some observers, the rise to date of women's participation cannot be considered a sign _ progress. Instead, they contend, the true result has been a larger proportion than before of women employed at or near entry level. 5/

A Conference Board report on the advances in women's employment opportunities from 1970-1975 points out that change is underway, but cautions that the process is complex, particularly in male-intensive industries where resistance has been great. 6/ It found that, even in



white-collar work where women hold more highly paid jobs, major progress has been made only in those industries with traditionally larger female workforces-banking, insurance, retailing and communications. The real problem again is that, unless provision is made for upward mobility, when women do move into nontraditional fields they tend to remain at entry level and continue to be segregated.

.This istudy on the feasibility of new work patterns to increase participation in education and training activities does not presume that availability and utilization of such opportunities, alone, will "lead greater upward and cross-occupational mobility. Antidiscrimination laws and regulations primary importance: even though thev best redistribute employment opportunities when number of jobs available is growing. Internal mobility is, of course, also affected by equitable promotion policies and other procedures. job-posting. Additionally, counseling and informal on-the-job training, which includes the team skills traditionally available to male employees, will make formal education and \. training programs more effective opportunities. supports, above all, perhaps, the provision of child care, will facilitate the career mobility of working women. , But, although education and training have had a lower return for women than of[°] men, women similar educational attainment to men generally have had much status). these activities still significant economic value, 7/ If new jobs of the future are to be sex-neutral, new initiatives in - training and education will be essential.

In sum, attention to both worker education and training and to flexible time schedules will be



heightened during the coming decade. However, it is of crucial importance that future consideration also be directed to changing existing patterns in each of these areas of personnel policy. In order for new schedules to offer more than a temporary palliative as an accommodation to some working must also begin to they better fulfill their more long-range potential to expand new job and occupations for women as danger exists that Otherwise, flexible real hours may, paradoxically, reinforce the narrow occupational stereotyping of women.

Moreover, if continuous learning activities are to be opened to the great majority of employed women who are now outside the structure of opportunity, participation must be encouraged by supportive policies, including the use of flexible hours. Although these two concerns have, until now, appeared to be quite separate, policymakers might now begin to consider whether and by what means they might be advantageously linked.

Investigation of each of these topics in the last decade has yielded substantial data through numerous surveys and case studies. Despite fact that neither learning activities worktime practice lends itself to generalization because each is diverse and often informal the brief, overview which follows nature. usefully serve as background to some spec if ic current experience of their linkage.

New Work Patterns: Possibilities and Problems

<u>Flextime</u>

New work patterns--flextime, the compressed workweek and permanent part time--are in greater use by American workers than is generally realized. About one-fifth of the workers in the



U.S. are not working a traditional 40-hour, 5-day schedule. Of these, 7.6 million workers or 12 percent of those in full-time, non-farm, wage and salary jobs are on flexible schedules. 8% The unique nature of this pattern has been aptly described as a transfer of some control over the timing of work from supervisors to individual workers, even though it does not change total hours. 9%

Flextime is particularly promising because it offers the kind of "free" time which might be used easily for education and training—a regular daily open time at the beginning and end of the working day. Moreover, several types of flextime are possible: (1) those within the 8-hour day requiring starting and quitting time either within a specific or variable period, and (2) others where credit and debit hours are allowed as long as the total hours worked fulfill weekly or monthly organizational requirements, or where core time is required only on certain days.

It is important, however, to remember that the degree of flexibility open to and chosen varies considerably even within organization. at the same from site or location to another. According to about 20 percent of organizations used estimate, flextime for at least some of their employees in 1980. 10/

Women, workers are less likely than menuto be in flextime schedules (as workers and union members). Data-on occupational a widespread categories shows use personnel, managers and administrators, professionals and technicians. Practice in these occupations .is generally long standing informal. Although relatively lower, the use of



flextime by clerical and service workers is substantial (9.8 percent and 8.7 percent of the total number on flexible schedules), representing a recent development in which eligibility and schedule rules are more carefully prescribed. Female-intensive industries are also high users--finance and insurance (with real estate), second only to the federal government.

employers and employees +ave Both the positive results from introduction flextime. Workers value easier commuting and the reduction of the pressure to be at work at a fixed time. They find flextime helps to balance their need for both free time and time for family responsibilities. Despite some problems of equity eligibility and of initial supervisor resistancé. employers generally cite overriding benefits to employees as rationale for adopting flextime. Several studies' results favorable economic to organization. As is of other alternative true patterns. however, the initial decisions tend to be based on the need to solve implement problems ~ (tardiness, particular bus iness belief of senior absenteeism) or to reflect the management that flextime is the "right thing to do, " 'rather than on careful economic analyses.

Compressed Schedules

Current use of compressed schedules would seem to offer a much narrower but still possible linkage with education and hours of nonworktime opportunities. The actual are usually more limited--from a half day to two ·full days weekly, depending on whether the 3, 4 or 4-1/2 day schedule is used. Furthermore, comparison with flextime, use of compressed schedules is low (2.7 million as of May 1980) and numbers have edged up only slightly since the early 1970s. 11/



this 'time + pattern, may remain 'Us^ comparatively restricted because advantages Ъе disadvantages cannot easily generalizéd: compressed schedules are particularly firmoccupation-specific. . They have been primarily used: (1) in manufacturing for shift work and for 24-hour, 7-day week continuous-process industries where start-ups and shut-downs are costly; (2) where capital equipment may be underutilized; and (3) where work is located at a considerable distance from workers' homes (as protective service jobs). But such schedules can also cause. organizational problems because of the difficulty synchronizing operations within and between Use of compressed schedules -†im√i ted ſas the flextime credit is and scheme) by conflicting union contracts legislation on overtime premiums. Workers have found that although the compressed week gives longer block of free time and reduces the number of commuting trips, it may also complicate social and home life, particularly for families with young children.

may be somewhat surprising that, as a whole, recent data reveal that, as many women as men are working compressed schedules. In terms 'of occupations, clerical workers are less likely to use shortened week than are employees in other occupations, but we might assume that many women included in the high use occupations and , factory operatives. ` Shortened workweeks are relatively rare in female-intensive industries (among the lowest users are finance. insurance and real estate) compared with local public administration (including police and fire The small proportion of clerical personnel). workers who are on such schedules may however, be employed in insurance and banking, 12/

20

Part Time: Its Several Variations

Part-time employment would seem to offer education and training. natural linkage with GeneralTy defined as work of less than 35 hours a week, part-time jobs have traditionally afforded a means for younger adult to support their Part-time work has continued learning. rapidly over the past 20 years, from about 1 in 12 workers to 1 in 7, and now appears to remain Part timers are employed in more than steady. one-half of all firms, although they account for usually only 2 to 7 percent of each firm's 13/ Furthermore; many employers workforce. status regularizing the new /\them employees, differentiating among tkīt le categories which range in "supplementals" to "prime-time" workers. companies offer 'salaries and fringe benefits comparable to those accorded full-time workers in similar jobs; only a few have "expanded the occupational range open to part-time employment or have extended promotion opportunities to part-time employees. Whether the pattern can now be used in a broader fashion so as to encourage education and for prime-age workers, particularly training women, depends in large measure on the success of current efforts to promote such changes.

initiatives . tò develop part-time employment 'as a longer term, career work pattern rather than a temporary, peripheral arrangement, however, must first counter the long prevailing and perceptions of part-time workers. practices the young and old, who are considered Women, and to have little sense of Joh attachment, are those traditionally work part time. Although all part timers are confined to the unskilled concentrated in the trade labor market; most are where uneven scheduling and service industries demands make their employment most attractive to employers. Because these jobs often involved discrete tasks or workloads with predictable cycles, employers have been able to meet special operating problems by increasing shifts. Sales, clerical and service workers and laborers are likely to work less than full time more often than managers, supervisors or skilled craft workers who find few part-time positions because of organizational perceptions of high skill requirements, continuous work flow and the need for communication.

Part-time work has generally vielded significant economic employers. returns to Superior job performance by part timers often reduces labor costs, as does the lack of many or all of the fringe benefits accorded to full-time workers. Part timers are frequently paid full-time employees, but differential may be largely due to the fact that part time is still confined to lower level jobs for men as well as women. 14/

Given .these considerations. employees and their employers have rarely invested in education and training. Workers, both male and female, on part-time schedules theoretically have more nonwork time for training and education, but realistically have far less incentive when the availability of higher level jobs on a part-time basis is low. Nor are they as likely as full timers to be able to afford the cost of education and training. Employers traditionally have reluctant to train even those women who work full. time, generally citing higher turnover ab**ŝe**ntee rates. According to some and absenteeism, often show a greater correlation to low job status, lack of advancement and other factors than to gender alone. 15/

The more recent development of career oriented part-time employment or permanent encourage greater provision of opportunities more widespread participation in education and activities. Beyond the regularity training for learning, incentive available enhanced when such jobs, considered permanent the organization, offer advancement possibilities and a range of fringe benefits comparable to those employees. full-time occupational segregation largely dominates, more regularized part-time employment has opened in jobs at higher skill levels and also in technical, professional and even managerial fields where continuous learning is a more accepted requirement for Successful job performance.

In creating a greater number of permanent part-time positions in the last decade, employers have responded to the demands of an increasing number of workers--particularly women who wish to remain to as well as enter or re-enter the labor force. But, industry and business have also found that advantages frequently outweigh the added financia() costs of social security and of fringe benefits, especially when the latter can prorated or offered in cafeteria style. 16/ Aside from solving peak demand problems, companies have experienced reduced labor costs, including as a result of a better match between overtime. and labor input. Many employers have work load maintained, if not improved, productivity due improved employee morale and lower absenteeism and when employees are better tard iness of paid outside activities organize nonwork Others report easier recruitment and, even more highly valued, a higher retention rate mid-career employees--those in pre-retirement periods who wish to reduce hours for family, health and other reasons. In the case of skilled employees and in others where training



involves future full-time workers, overall hiring and training costs may actually be lowered.

Job Sharing' Job sharing, which emerged in the late 1970s, combines some of the advantages of part-time with of full-time employment. The job regular full-time position but the jobholders work part time and divide salary and fringe benefits. This pattern may offer a unique potential for education and training in two respects. a. regular block of nonwork time, as do part-time arrangements, but because affords greater continuity of coverage and, often, a combination of diverse skills, the new pattern may further expand the variety of occupations levels of part-time jobs. Furthermore, this form flexibility /may encourage a new type of on-the-job training whereby a partner with highly developed skills may be teamed with a less experienced worker.

other new work patterns, no aggregate Unlike exist on the extent of the usage of job sharing. Practice is sporadic in the private and in the public sector, although it has been more visibly utilized in the latter where educational. institutions and local state agencies have offered job sharing along with other voluntary time Current use by private organizations may well be greater than has been reported. in general, it may be safely assumed that most of these employers have yet to expand job sharing a proportionately few ad hoc arrangements in each organization. Occupations are thought to and job levels vary from professional to unskilled workers. An informal national survey found that the largest percentage teachers (26 percent) and administrators. coordinators/program developers (25 percent). 17/ A more recent Conference Board survey found



banking and insurance were the most likely of the industry users. 18/

Most job sharers, who are married women and are likely to have children at home, particularly value the ability to balance home and work. But, beyond this, they have often been able to find employment with salary and fringe benefits which are not generally available on a part-time, one person basis. In addition, some sharers find special advantage in supportive team collaboration and in the ability to trade time and tasks with a partner:

Employers have realized benefits from the use of job sharing similar to those discussed earlier of other part-time schedules. But, additionally, they report, unique advantages of this pattern which can alleviate solve many of or part-time difficulties associated with Greater flexibility is made possible when one employee covers for the other or when adjust worktime to peak and periods. Furthermore, job sharing in professional and supervisory positions has often been found to bring a more productive performance than would a single full-time employee. The pattern has been especially successful in those higher positions, which require: (1) liaison within and outside the organization, (2) field work in different geographic locations and, (3) time pressures over long or short periods. 19/

The complications of instituting and managing job sharing which employers usually anticipate have been handled successfully in both the private and public sectors. Careful brokering to ensure complementarity between partners and between partners and the job, appropriate scheduling, and communication between sharers, co-workers and managers are fall important conditions. And



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although this form of part-time employment, requires, too, that employers revise policies on fringe benefits, many have instituted a system of prorating. Finally, in some instances, the inclusion of these and other provisions of parity with full timers has mitigated the union objections to even this form of part-time employment.

However, it must be pointed out that organized labor generally continues to object expansion of all part-time employment grounds that it will increase job competition, worsen unemployment and detract from the goals of shorter worktime for all workers. National leaders also contend that part-time jobs tend to downgrade occupational status, aid those workers less in need. and make -future organizing difficult. This claim continues, despite the fact at several local levels. union officers. recognizing the need to respond to workers' genuine desires for reduced hours, have negotiated for part-time options.' They have acknowledged, in the bargaining process, that some jobs are more? conducive to part-time hours and that the option reducing worktime is often preferable temporary alternative to lay-offs.

Employer-Sponsored Education and Training

Unlike new work patterns which appear as mutually advant ageous accommodation with relatively few organizational costs or changes in structure, industry-sponsored education training have become an expensive and complicated business necessity. 20/ It serves basically to adapt previously acquired skills and knowledge needs of the job. Increasingly, these activities also' serve to compensate deficiencies of general or vocational knowledge. They often include general knowledge designed to



enhance skills and to adapt to new technology. This continuous learning takes place in both informal on-the-job training by co-workers sor supervisors and through more formal instruction at the worksite and elsewhere.

Although industry activities are still largely considered a private affair, they have become of greater public concern as billions of dollars are spent and millions of Americans, involved, and as the desized effects on productivity and workers' income and occupational mobility are questioned. are real difficulties in Yet, there appraising, often diverse and informal learning activities. National surveys industry-sponsored education have been infrequent More important, they cannot irregular. measure the unrecorded on-the-job activities which are the most prevalent type of education training. And, despite the fact that the training itself is becoming an industry, ther has little examination of the total job to determine the optimum relationship between activities which take place on and off the job. 21/

Available information on the scope and nature of employer-sponsored programs underlines the uneven access to training. A 1980 review of the diverse surveys concluded that:

--Employers provide formal education opportunities in fewer than half of all firms, but by more than 4 out of 5 of the larger firms;

--Among those larger firms, about 1 in 5 workers takes part in training programs during any one year, whereas the proportion is much smaller for all industry:

--Management and white-collar workers, far more than manual workers, are likely to participate in formal training:



--Skill training accounts for only a small part compared with learning about company products, orientation and safety;
--Most companies which offer training do so on company time. 22/

Occupation and industry also determine what opportunities are available. The number and type opportunities vary significantly among managerial employees, sales, supervisory personnel, draft and operative workers, workers, and professional and technical workers. The structure and technology of industries affects the provision of education and training; high technology employers, for example, find difficulty hiring already trained workers in occupations, depending on the location available labor supply.

specific data on the most opportunities available to nonexempt workers is found in a 1981 Conference Board report of small, medium and large size establishments in banking, manufacturing, utilities and insurance. About 84 the of respondents provide on-site education and training for both office clerical workers and production operations workers. Banking, utilities and insurance. particularly, provide programs for clerical and Utilities and manufacturing -workers. industries (to a somewhat lesser extent) offer these activities to production and operations non-exempt level, training aims the largely at providing specific job skills or safety and industrial skills to newly hired employees, in contrast to training for lower level exempt employees which aims to improve performance and to prepare employees for new duties. 23/



Utilization of Tuition Assistance

The availability of tuition assistance programs, it might be assumed, would provide learning opportunities for low status workers. These are programs by which companies offer financial assistance to some or all employees to encourage them to study, generally at outside educational institutions. But the problem arises not in provision by employers but in utilization by workers.

The Conference Board survey referred to above found that tuition assistance is provided full-time, white-collar workers, both exempt and 90 percent of the companies nonexempt, bу blue-collar, nonexempt For workers. surveyed. by 80 percent tuition was provided companies. A 1977 study by the National Institute of Work and Learning estimated the number of workers eligible through union-employer negotiated 2 million. Participation. plans as nearly however, in all plans in the United States is generally considered at between 4 and 6 percent. Those most likely to utilize tuition aid are workers who already have a greater number of years in. higher schooling and are jobs--essentially white male workers. 24/

A study focusing on the utilization of tuition assistance by women found that lower participation basically to women's position low-status jobs. Although women of all income, and skill levels took advantage tuition assistance than did men at the same level, the status/hierarchy within either sex distinctions held true. Among the program-related barriers faced by women were the requirements that courses be job-related and tuition be paid in Women were more likely than men to believe that education would not help on the



and to cite their "fear of returning to school." They were also more inclined to feel that "fatigue" and rigid work schedules barred their participation. 25/

Research on programs where tuition aid is highly used by employees at all job levels has found that organizations develop specific means to encourage employee participation when they are committed to broadly-based education and training programs. Where this kind of commitment exists, opportunities for nonexempt workers and women among them are made more effective. In order to assess the relative value of new work patterns to increase participation in education and training, this preliminary study will take into account the ways in which worktime is adjusted in some of these organizations.

NOTES

- 1. Ernest A. Lynton, The Role of Colleges and Universities in Corporate Education. Draft Manuscript, Center for Studies in Policy and the Public Interest, University of Massachusetts, 1981, p. 3.
- 2. See, for example, Robert P. Quinn and Graham L. Staines, The 1977 Quality of Employment Survey: Descriptive Statistics, with Comparative Data from 1969-70 and 1972-73 Surveys (Ann Arbor, MI: Institute for Social Research, 1979).
- 3. Paul O. Flaim and Howard N. Fullerton, Jr., "Labor Force Projections to 1990: Three Possible Paths," Monthly Labor Review (December 1978), pp. 25-33. "Americans Change: Demographics Affect the Economy," <u>Business Week</u> (February 20, 1978), pp. 64-77.



- 4. For these projections see, Ralph E. Smith, Women in the Labor Force in 1990 (Washington, DC: The Urban, Institute, 1979).
- 5. This analysis is primarily based on data earnings and occupational distribution of women working year round, full time, as compared to male Despite the gains by some women higher level positions, the wage differential between the sexes has persisted the same rates from 1960-1977. basically Moreover, in general, women gain little earnings over the life cycle as compared to men jobs lack similar advancement since their See: Testimony of Alexis Herman, possibilities. Nancy Barratt, "The Coming Decade: American Women and Human Resource Politics and Programs, 1979," Hearings before the Committee on Labor and Human Resources, 96th Congress, 1st session (January 31 and February 1, 1979), pp. 353, 1042. See also, Dunlap, "The Legal Road to Mary Employment Opportunity: A Critical View," Barbara, B. Reagen, "De Facto Job Segregation," in Anne Foote Cahn, ed., Women in the U.S. Labor Force, Report for the Joint Economic Committee (New York, NY: Praeger, 1978).
- 6. Ruth Gilbert Shaeffer and Edith F. Lynton, Corporate Experiences in Improving Women's Job Opportunities, Conference Board Report #755 (New York, NY: The Conference Board, 1979).
 - 7. Patricia Cayo Sexton, Women and Work, Employment and Training Administration R&D Monograph #46 (Washington, DC: Government Printing Office, 1977), pp. 1, 9-10.
 - 8. These data refer to usage as of May 1980. Unless otherwise noted, information in this section is found in U.S. Bureau of Labor Statistics, News Release, February 24, 2981. The



definition used was phrased as "flextime or some other schedule that allows workers to vary the time they begin and end work."

- 9. Janice Neipert Hedges, "Flexible Schedules: Points and "Issues," Monthly Labor Review, v. 100 (February 1977), p. 62.
- 10. New Schedules for a Changing Society, Work in America Institute (Scarsdale, NY: 1981), p. 34. On the issues arising from these differences, see Hedges, note 9, pp. 64-65.
- 11. See note #8.
- 12. Harriet Gorlin, <u>Personnel Practices II: Hours of Work</u>, <u>Pay Practices</u>, <u>Relocation</u>, <u>Information Bulletin</u> #92 (New York, NY: The Conference Board, 1981), Table 3.
- 13. Bureau of National Affairs, <u>Bulletin</u> to <u>Management</u>: <u>ASPA-BNA Survey No. 25. Part-Time and Temporary Employees</u> (Washington, DC: Bureau of National Affairs, 1974), reported in <u>New Schedules</u> for a Changing Society, p. 30.
- 14. John Owen, "Why Part Time Workers Tend to be in Low Jobs," Monthly Labor-Review, Vol. 103 (June 1978), p. 12.
- 15. See note #7, pp. 29-30. According to Bureau of Labor Statistics data, the rate of absenteeism for single women in 1980 was approximately the same as that of men. Occupation and union membership also account for differential rates. (See: News, Department of Labor, Bureau of Labor Statistics, January 26, 1981.) In regard to tenure, Bureau of Labor Statistics reports during the period 1973-1978 no differences for men and women in the early years of labor force participation, with a widening differential increasing with age. Women had the highest tenure



rates in professional, technical and kindred fields and approximately the same job attachment as men in operative (nontransport) occupations. (See: News, Department of Labor, Bureau of Labor Statistics, April 23, 1979.)

- 16. For case studies of these experiences see: Stanley D. Nollen, New Work Schedules in Practice (New York, NY: Van Nostrand Reinhold/Work in America Institute Series, 1982) and Maureen E. McCarthy and Gail S. Rosenberg, Work Sharing: Case Studies (Kalamazoo, MI: The W. E. Upjohn Institute for Employment Research, 1981).
- 17. Gretl S. Meier, <u>Job Sharing</u> (Kalamazoo, MI: The W. E. Upjohn Institute, 1979).
- 18. See note #12, Table 5. The survey found that 6 percent of the 541 respondent firms have job sharing arrangements but there was no indication of the number of teams in each organization. A, 1981 survey of 104 human resource executives of the Fortune 1300 by Louis Harris and Associates, Inc. found a high degree of interest in job sharing (and other flexible patterns). Of the policies considered likely to be adopted in the next five years, job sharing was indicated by most (70 percent) of the respondents. General Mills American Family Report 1980-81, FAMILIES AT WORK: Strengths and Strains (Minneapolis, MN: General Mills).
- 19. See: Gretl S. Meier, "Professionals and Supervisors as Part-Timers and Job Sharers" in Nollen, cited in footnote 16, pp. 59-68.
- 20. This summary is based largely on papers of the Worker Education and Training Policies Project of the National Institute of Work and Learning (formerly the National Manpower Institute), Washington, DC, 1980. See especially Harold

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- 21. Irwin L. Goldstein, "Training in Work Organizations," <u>Annual Reviews of Psychology</u> (-1980), 31: p. 234.
- 22. Goldstein, cited in footnote 20, p. 34.
- 23. Harriet 'Gorlin, Personnel Practices I:
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II. ADJUSTING WORK HOURS FOR EDUCATION AND TRAINING: SOME RECENT EXPERIENCE

The following review of recent experience relating flexible work patterns to learning opportunities is based primarily on interviews and preliminary data collected in 1981 at worksites. Ιt indicates certain additional information needed for more comprehensive investigation. More important, it implies pre-conditions for policy consideration of this linkage.

Part Time: Progress and Problems

As already suggested, increasing participation education and training through part-time. schedules for low status women poses contradiction. Obviously, some women who work undertake continuing are able to time particularly with the growth of education, community colleges and other institutions offering low fees and convenient scheduling. women who voluntarily work part time do so order to stretch nonwork hours to care for home at Nower job The majority, those and family. levels, rarely have financial means of their own to return to school. Like many women working full time, they must also overcome fears of learning situations. They, especially, will need the incentive of potential economic return.

To what degree have the efforts to improve the status, advancement opportunities, salary and fringe benefits of part-time employment succeeded so that reduced hours may serve as a bridge for learning? Certainly, the current picture causes less optimism than that of other new work patterns.

Opportunities for employer-sponsored training are unusual. If 80 percent for part timers work inq full time . are confined female occupations, traditional despite changes ... outlined earlier, a still proportion of part-time workers remains even more stereotyped. Employers who are unlikely to invest in on-site training for such full-time workers are even less concerned with part timers. In fact. the expansion of part-time, schedules clearly limited by employers' concerns about training costs; workers are on the job only half-time and the numbers to be trained are doubled. Companies. who employ part timers, even on a permanent basis, the other hand, often find that costs are negligible, precisely because they hire workers who are either already trained or who need little or no training to perform their tasks.

Tuition Aid Benefits

Although an increasing number of employers are offering fringe benefits to part timers, these ben**a**faits usually take the form of paid holidays wand vacations. A good deal of the reportedly "new" part-time employment, which affects women in predominantly female occupations, is, often "mother's hours." convenience in a accommodation in time and place. These special arrangements rarely, however, include financial support for continued learning nor encouragement for upward mobility.

An example of this type of accommodation is found in the Control Data bindery plant, itself an innovative approach to job creation, in Selby, Minnesota. Established after the riots of the 60s, the plant was designed to provide employment in the inner-city area. In mid-1981, the 280 employees, largely minority and female, all worked part time although their managers worked full time. (In the organization as a whole, about 60



percent of the 56,000 employees have some control over their work hours. About 5,000 are part timers, including many in professional positions.) At the bindery, skill requirements are low, and mothers, teenagers and other students work three shifts as needed. Although in the past ten years about 175 employees have moved to higher-paying, full-time jobs in the company and elsewhere, management regards: this plant operation only incidentally as a training mechanism. Moreover. if continued education or formal training were wished 'for by employers, company policy does not include these part timers as "supplementals" in eligibility for financial assistance.

general, even where employers provide In tuition aid programs, part timers are usually ineligible for these benefits. The Conference Board survey cited, earlier, which found that a large majority of the companies surveyed offered tuition aid to full-time workers, also found that production workers were eligible programs offered by only 6 percent of the firms eliqibility to their full-time, (compared with counterparts by 93 percent of these firms). Programs which included part-time clerical workers offered by 13 percent or survey respondents (compared to 99 percent for their full-time counterparts); most were in banking insurance. 1/

The companies investigated in this study which employ a substantial proportion of part-time workers present a varied picture. Some limit benefits to full timers only; others provide for part-time entitlement, and still others, even where career development programs exist, limit the types of courses open to less-than-full-time workers.



$\frac{\text{Part Time and Tuition Aid: An Experiment}}{\text{in Data Collection}}$

an effort to test the feasibility of determining participation by part timers, examined the tuition assistance records at Santa <u>Clara County</u>, <u>California</u>, <u>of 367 employees</u> represented by <u>Local 715 of the Service Employees</u> 367 International Union (SEIU). This semployee population are particularly This site and because the union local, which represents about 58 percent of the county's workforce, includes a high proportion of workers in low paying jobs. an oft-cited example of positive leadership in worktime flexibility, had negotiated for a minimum number of part-time positions ("split" codes), whereby two employees divide the responsibility, of a full-time position and still fringe _benefits. Ιt full successfully bargained for a program of Voluntary Work Hours (VRWH) whereby employees in choose at six-month intervals, reductions These range from . 2.5 percent 20 percent, with corresponding wage reductions fringe benefits largely seniority and unchanged.

According to tuition aid records, those employees who work either split codes or reduced hours (in almost equal numbers) do, in fact, participate in outside education in a much higher proportion (18 percent) than might be expected by their representation in the Local 715 population (6-7 percent).

This is especially noteworthy because of other factors influencing the use of tuition aid funds: (1) Employees do not usually need to use such schedules to enroll in the few courses made possible under the relatively low reimbursement sum (\$300 at that time). The county permits



workers, in those instances when a class offered on non-worktime, to make up only half of the time taken from work. (2) All employees are using the less than in previous years when funds programs were better publicized and fewer programs were offered by local colleges. Training is given a low priority at all levels of the organization. These activities might now be considered more important because budget cuts have resulted in limited¹ staff _ and assignments. Management regards the allocation of training funds, however, as a luxury in contrast to direct service needs.

Data Needs

A preliminary study of these records also made clear, however, the many categories of additional data required for valid—analysis of the effect of reduced schédules on participation in outside education. More comprehensive information would disclose, for example: (1) the extent to participation may be affected by the ineligibility employees in certain, departments classifications to work less than full time; (2) the . 20 percent usage rate by participants on reduced schedules in lower (clerks. hospital, social and community service workers) with compares their representation in the population; and (3) whether largest (35 percent) group, of participants, public health nurses, were. using the additional time off for which they are eligible through a separate plan.

Job-Sharing: Existing Limitations

Investigation of the effect of other examples of job sharing as a means to increase participation in educational opportunities poses particular complications in regard to women in low status jobs. Knowledge is limited because the practices, despite efforts of its advocates,



30 -

coltinue as an accommodation to individual employees, with only small numbers in a growing diversity of worksites. Among these experiences are many in which individuals have deliberately chosen to use the option to pursue further learning. 2/ In others, job-sharing arrangements have allowed the pairing of employees with different skill levels, with one partner training the other.

But, in the rare instances involving larger numbers of employees (50 plus), job sharing has either been directed only at high school students in a cooperative program (Equitable Life Insurance), or utilized the pattern as a temporary diternative to lay-OPFs (United Airlines).

In general, both the more singular and larger scale examples have demonstrated the difficulty of utilizing job sharing as it is now most commonly practiced as a means to significantly increase access to education and training opportunities. Perception and practice too often resemble the more traditional part-time arrangements. With few __initiate job exceptions, companies experiments by allowing the option only to current full-time employees. Where new hires permitted, employees are usually already trained. although some higher level jobs opened to sharing, tend to employers still restructure jobs perceived as easily divisible, those likely to be at the lower salary levels and lacking advancement possibilities.

These Rolscreen Company in Pella, Iowa, an unusual instance of job sharing by production workers. About 4 percent of the workforce (68 individuals), predominantly women, arrange half-time schedules with partners. They choose to job share primarily to make time for family care or more leisure or to



ease the transition to retirement. Although a few sharers are students working a night shift, normally part timers are not eligible for the 100 percent tuition reimbursement which is used by about 10 percent of all workers at the plant. Company policy limits job sharing to those previously employed full time and these only in job classifications below the higher skill levels.

In order for job sharing to become a valid means to continue learning, future practice must first verify that the option can, in fact, fulfill its promise to open positions in a wider variety of occupations and levels than has so far been the case. At this time, job sharing at higher level jobs has not caught hold in industry or business nor existed for a sufficient period in the public sector to determine whether even this form of part-time employment can provide genuine career progression.

Although some sharers have been promoted, these are likely to be cases in which one partner moves to a full-time position; rarely are both promoted as sharers. In such instances, still small scale, the shared job has itself served as training. But, given the complex nature of divided responsibility in higher level positions, it is still unknown whether and by what means such positions will remain open to sharing beyond the tenure of initial incumbents.

If, in the future, part-time employment, including job sharing, permits vertical and occupational mobility, then these reduced hours might more realistically provide both impetus and means for continued learning. A longer tenure and a lower turnover through a more continuous shift to and from full-time employment within the same firm could also then be possible. Because this kind of life-long employment would focus



investment on the employee rather than on the job per se, it would increase *the incentive in education and training for both the employer and the employee.

40-Hour Flexible Schedules

Compressed Work Schedules

A few examples of the shortened workweek indicate a more immediately practical link to education and training and suggest the particular conditions which need apply. In all of these organizations, management is committed to policies of employee development and use of tuition aid is high. In only two, however, have employees found this particular work pattern especially effective.

At the Connecticut General Insurance Company, a forerunner in developing employee programs aimed at increasing satisfaction, a variety of training and education programs are open to nonexempt workers. Generally, although no formal flextime programs exist, employees are allowed time off (or compensatory time) for on-site or -off-site Production workers, programs. however, such as Center, those employed at the Data find especially difficult. About 170 employees 'percent of Center employees) work a shift of three 12-hour days. Although no data are available on their participation, the managers of programs and the data unit indicate that employees do take advantage of training on their, free days: Future investigation would have to take account not only the comparative use of tuition but also the participation in internal courses paid from the separate department budgets.

A different experience has taken place at the Wells Fargo Bank (San Francisco), an organization also noted for its career development programs for women. Here, worktime flexibility is encouraged

in arrangements by individual departments, although again no official flextime policy exists. Several years ago, the Trust Department attempted to institute a four-day week. The Department, according to its manager, is more inclined than others to experiment, possibly as a reaction to its pure service nature and its relatively rigid work content. It also has a high education budget, of which tuition assistance is only one part.

four-day schedule proved unsuccessful because of problems of coordination within the bank and the need to meet particular state requirements for certain memployee hours. But the department also found that employees did not wish to schedule courses on "free" time, particularly when an estimated 10 to 15 percent of time at work ordinarily concerned with education Employees in lower level particularly, may feel less incentive to volunteer for education, it was explained, because their isolation from the rest of the organization and their highly specialized skills make mobility to other departments unusual.

A more successful use of compressed schedules at Physio-Control, a medical. place instrumentation company in Redmond, Washington. The company had earlier operated four-day and four-and-a-half-day shifts; it added a weekendof labor of three 12-hour days because shortages and a high use of overtime. Because the work is technically oriented and highly skilled, Physio-Control was particularly anxious to attract students and others interested in continued training. At the same time, it encouraged local community college to develop relevant especially in relectronics and courses. accounting.



The percentage of weekend workers ("weekend warriors") using the 100 percent work-related tuition reimbursement has varied from 35 percent to 65 percent, considerably higher than the approximate 15 percent participation by all employees. However, numbers are small and only a few of the 42 workers on this shift (which accounts for 15 percent of the total employee population) are women.

Flextime

Although we know too little yet about which workers on flextime schedules also use the option in order to pursue education and training, this new work pattern appears to offer the most significant potential for increasing participation by nonexempt as well as exempt workers. Two surveys of government workers have found that employees on flextime schedules realized the greatest advantages in increasing personal time for family and recreation, as would be expected. But, additionally, a large portion of the survey groups (43 percent, 49 percent) also found that the schedules afforded a greater amount of time for educational activities. 3/

The results of a similar survey at the John Hancock Insurance Company in Boston are of special interest because they reveal that, although 19 percent of the workers on flextime felt the new pattern increased time for educational pursuits, 72 percent of the survey group found that flextime had little impact. 4/ No valid comparison can be made with government surveys without additional data, but it might be pointed out that at John Hancock, overall use of tuition assistance was only about 1 percent (1980-81). Moreover, in contrast to the experience described below where flextime may extend training time, at John Hancock it serves instead to limit the time available for



in-house programs. In order not to penalize employees on such time schedules, supervisors confine training courses to core hours.

Hewlett-Packard: Possibilities and Data Needs approach, different may Hewlett-Packard (HP), the California electronics where anticipated growth and explicit philosophy are corporate, contributing consideration of revised employee development Technically, all employees may flextime schedules, although use is universal in manufacturing and unusual sales. - Several in personnel and training managers at headquarters and in at least one division where interviews were conducted acknowledge that flexible hours significantly increase participation in education and training opportunities.

Flextime has "opened more options, though not necessarily more time," explained a training manager. It may allow an employee to start work two hours earlier or to stop work later and take advantage of either education sponsored off-site or company training on-site. The schedule also enables the company to put classes on "the front or tail end of shifts and pick up exployees on the graveyard shift at the same time."

We would need much more data, however, at each divisional level to determine whether and in what ways this more flexible learning time affects the large number of women employed Of the 47,000 HP employees in Hewlett-Packard. the U.S., almost half are women (41.5 U.S., 43.5 Bay Area). They are concentrated in the nonexempt population at the secretarial and semiskilled Their mobility beyond the 'nonexempt level 'this typically male-dominated, high-tech organization has generally been limited management positions in personnel and occasionally



in marketing. Whether they (and the *men in lower skilled categories) would take advantage of more flexibly scheduled education and training depends on the extent to which the company may develop and encourage these opportunities at each of its 43 divisions--where such innovation generally takes place.

activities, Training now directed may focus in the near future on themanagement, development of production workers. "One of issues," the director of personnel maintained, "is the need for trained technicians as well as engineers." Employees will have to be moved up into the hard-to-fill higher skilled jobs. "There's no reason," he pointed out, "that we can't get 'entry level production people moving up if they're interested and we make it easy."

Continued growth is stimulating changes in the content of employee development programs; existing courses aimed primarily at familiarizing the organization with may specific iob supplemented others in more by The results of "Open Line." employee attitude survey, were widely reported in the house magazine. They are frequently referred personnel managers in discussions education and training needs. This survey, which disclosed employee desire for skill training counseling, has' also served to raise the of employees, the nonexempt expectations opinion of at least one manager.

Other changes affect the scheduling of training. Until recently, all skill training has had to take place on workers own time. A greater number of courses are now being offered on company time as well as in off-hours programs. Off-hours programs are taught by company instructors on-site



and are generally considered to strictly benefit the employee, although they may also include general skill training. Beyond the San Francisco Bay area, at least three divisions are operating joint programs with community colleges whereby college credit. courses are taught by college teachers on company sites.

Data Needs

In order to investigate participation in the on-site, after-hours training programs and to determine whether flextime in fact increases opportunities, future investigation should obtain data, from a sampling of selected divisions. To consider which types of opportunities are actually available, these data should also include information on the varying employee populations at each location in comparison with the extent to which the types of courses differ by entity and locality.

For example, according to the data for the North Bay Area in California (seven divisions), the participation rate in after-hours courses is low (3 percent of those eligible), compared with other areas where it may be as high percent. Two possible explanations were offered: (1) that the North Bay Area includes a higher percentage of clerical workers (who are presumably less inclined to pursue technical courses are offered); and) (2) in this same geographic area, a higher pércentage of employees may be participating in courses at community colleges rather than in those conducted on-site. At least area college has scheduled special "Early morning courses which may accommodate either on flextime or on regular's employees schedules.

In order to determine how the amount spent for tuition aid (\$2 million in fiscal 1980) was



actually dispersed, it would be necessary data bevond those available An accounting of the dollar amounts headquarters. each entity does not accurately expended bγ reflect employee participation, since: (1) costs for outside education vary by site. and budgets at each site are used in varying amounts individual employees. More information at selected sites would also provide a basis to analyze the comparative use of a prorated time reimbursement scheme by which HP refunds 100 percent of the expense (assumed to be the usual use) if personal time- is used for classroom work. 50 percent if company time is used, and 75 percent time is shared between the employee and the company.

Informal Flexibility

A comprehensive study of the role of new work should also examine the more informal flexibility in those workplaces where proportion of lower status employees takes part in In these companies. continuing learning. schedules are adjusted either in an ad hoc fashion or on a regular basis through released time. 5/ Although such practice defies quantification, intensive on-site investigation would better determine the equity of access within employee populations and the result on employee employer of this intent-specific time and flexibility. Policymakers might then rationally assess the relative advantages of new worktime patterns. It is important to recognize, however, that this informal flexibility is most likely to be made available to employees in low when companies have ?broad: . jobs well-developed programs in education and training already in place.



Polaroid: Opportunities and Participation

At the Polaroid Corporation in Cambridge, Massachusetts, women working at hourly jobs take part in large numbers in innovative internal and external education and training programs. 6/Participation on company and employee time is high in this atmosphere where "education is in the air."

The success of the overall program depended on several factors: (1) the company's success and corresponding growth from financial 200 employees in 1957 to 13,000 (1981), With many employees in jobs requiring both technical good general education; (2) the initial commitment to education and training of founder, Edwing Land, in his desire to create (3) model business enterprise; policies promotion and job posting; (4) community in which many educational facilities are available; and (5) careful staff planning execution of programs.

the time of this study, about half of all Polaroid employees were involved in one or more of the internal and external education programs provided and paid for by the company...In external alone, about 10 percept of employees participated, well over the national average in assistance programs. This has been attributed to program structure, content support. Full costs are paid in advance (rather than the more usual reimbursement procedure) and hourly and salaried employees are entitled to the same benefits. The program is well publicized and includes staff support to assist and advise employees., Content is broadly based so as include not only skill improvement but courses in reading and math as well alsó basic as associate, bachelor, leading to and _advanced degrees.

aid finances company-initiated Tuition programs requiring education outside training courses undertaken in by employees as career external Several special programs. combine both in-house mobility programs external courses. Some involve women workers: the nine-month secretarial internship program, and, to more unusual two-year degree, the technical cooperative program whereby a internal small number of employees receive two thirds pay and alternate periods of work and study toward a bachelor of science degree.

Data Needs

Data available during this writing suggest that further investigation might yield useful information to examine the relationship of time schedules to education and training for women in low status jobs. According to Polaroid managers, use of tuition aid by nonexempt workers in mid-1981 was approximately 40 percent. But we would need to know more precisely the number of women participating, the jobs they occupy, the types of courses they pursue, and the results on mobility and well-being.

internal programs, women have been represented: approximately 20 percent of the total population of nonexempt women engaged in internal courses at this time were women in hourly jobs (compared to their representation in the company 25 percent).. According to population of about most hourly workers training managers, math and manufacturing technical courses in English as a second language and skills. secretarial techniques. More specific data would required to determine the types and numbers of courses which each employee undertakes as well as the number of employees who apply and/or who do not complete courses.



More important, policymakers must have more complete data on the effects of participation in programs. report by the National Α Commission on Working Women has questioned whether. in fact, the availability opportunities has had as significant results on the mobility of women in lower-level jobs Polaroid as in other organizations. 7/

Tektronix: A Singular Success Story?

The innovative education and training programs open to all employees at Tektronix (Tek), electronics company in Beaverton, Oregon, have had significant effect on moving lower employees to new jobs and job levels, goal, explained the manager in charge of these programs "is to help people get involved in education that will help them to help themselves, to understand more about the company's] products, their jobs and the jobs they would like to have." Many of the men who have become vice presidents at benchwork. Women, who account for half of all employees, have often been almost employed as production, assembly first secretarial and clerical workers. From 1975 to when the number of employees more doubled, the number of women who moved professional jobs more than tripled. In 1980, almost 30 percent of managers were women, compared with 8-percent in 1975.

Flexibility is an integral part of the Tek atmosphere. Although many courses take place after work (except for immediate skill training), employees may also occasionally use worktime for learning. In this informal, largely democratic workplace, an honor system allows employees to keep their own time records. Employees may change to part-time schedules, though their numbers appear low; fewer than 10 percent use flextime, which, as a manager commented, "happens anyway."



These informal adjustments, however, are only one of the several factors which have made Tek education and training programs so effective. Other factors include: (1) a policy of internal promotion which encourages the linking of learning to career paths; (2) an active staff in the education and training department to counsel and assist employees; (3) low gost of internal on-site courses; and (4) the provision of child care.

Because of its location in a relatively remote initial labor shortages virtually assured that the company had to "develop its own." Tek Howard Vollum and founders Jack Murdock. organized the company in 1946 as a profit sharing believed that the long term success of the company depended large in measure encouraging employees to develop their career philosophy has potential. This continued underlie company policy, even though the recent presence of other electronics companies and of community colleges has somewhat lessened earlier needs.

An increasing number of women participate in the Tek Education Program (TEP), in noncredit courses aimed at providing the skills for higher job levels. Although most classes take place on-site after-hours, a few are held during the workday to allow second shift employees to take part. The company pays half of the low (\$20) fee. Child care is available and employee family members may also participate.

The tuition aid program, which allows both work and nonwork-related, education, has been well used. Overall participation in 1980 was about 13 percent, somewhat higher in the field offices than in the main-facility in Beaverton where TEP and other on-site classes are held. Women employees use about half of the aid, it is estimated.



Courses scheduled in regular classes are Community colleges but with registration at Tek or in the cooperative education programs sponsored jointly with local institutions. employees Most (70 use the percent) full 100 percent reimbursement for job-related courses rather than percent offered for nonwork-related courses.

These internal and external programs (together with special workshops for upward and occupational change) are made effective because of the company's linkage of education and training to career paths. The catalogue which summarizes courses and reimbursement procedures for tuition assistance also outlines possible job. and career . opportunities. It explains how courses mav used to attain a new job, cautioning "although no class or education course guarantees most are helpful." The handbook describes positions, indicates what types of opportunities are available to enter this field, lists potential earnings or pay raises and specifies courses in. the TEP program while also suggesting that many courses are available at local community colleges.

A system of job posting and career counseling also supports education and training programs. Despite some recent tightening of regulations, the Job Opportunity transfer system, which is widely distributed through the company newsletter, has facilitated lateral as well as upward moves by all employees, including women in Nower level jobs. career change process has been fluid. encourages informal discussions with managers, especially because managers have often changed careers during their employment at Tek and are likely to be receptive to employee needs. company has also periodically added more counseling and special career workshops and programs to meet specific needs.



The experiences at Tektronix and at Polaroid extend the possible scope of future consideration workplace flexibility and ·learning-particularly for lower status workers. adjustments in worktime may be, under circumstances, as valuable as are the particular flexible patterns. The additional data noted would provide a better basis for examining the equity of opportunity and indicate its effects. however broadly it defines flexibility, subsequent study will also need to assess fundamental implications of some öf the organizational issues which have emerged during this review of current experience.

NOTES

- 1. See note #I-23, Table 35. Although the survey included data on participation, no breakdown was made between full and part time workers.
- 2. Gretl S. Meier, "The Effects of New Work Patterns on Family Life and on Men and Women as Individuals," in Stanley Nollen, New Work Schedules in Practice, Work in America Institute (New York, NY: Van Nostrand Reinhold, 1982).
- 3. Flextime: Evaluation of a One-Year Experiment at the U.S. Geological Survey. Prepared by the Branch Management Analysis, Administrative Division, U.S. Geological Survey (Reston, VA: August 1977); Evaluation of Alternative Work Schedules, National Oceanic and Atmospheric Administration (Washington, DC: January 1981).
- 4. Four-Day Workweek and Flextime Survey Report,
 John Hancock Mutual Life Insurance Company,
 Personnel Research Operations (Boston, MA: August)
 12. 1978) mimeo.

- 5. In two of the surveys on tuition aid usage, "adjusted time" is listed as a separate category from paid or nonpaid time. A 1979 survey of 141 that about 8 percent found of those companies which allow workers to take time off for courses pay employees for time lost; 10 percent grant employees time off without pay; 14 percent adjust work schedules and 8 percent use flexible Allen E. LeBel, A Study of Negotiated schedules. Tuition Aid in Industry, Exhibit V (Washington, DC: National Manpower Institute, January 1978) unpublished. A more consistent survey (adjusted for nonresponse) found that, of the 274 companies with tuition aid programs, 12 percent of the companies "adjusted schedules" for respondent and clerical workers, 11 percent for production workers. (See note #I-23.)
- 6. For a detailed description see Kathleen Knox, Polaroid Corporation's Tuition Assistance Plan: A Case Study, Worker Education and Training Policies Project, National Institute of Work and Learning (Washington, DC, 1979).
- 7. See Appendix, Mobility in the Marketplace. Case studies of Programs, Policies and Practices that Provide Working Women with Career Mobility, Draft Manuscript (Washington, DC: National Commission on Working Women, 1981).
- 8. Useful background material on Tektronix is found in Paul Ferrini and L. Allen Parker, <u>Career Change</u> (Cambridge, MA: Technical Education Research Centers, 1978), and <u>Mobility in the Marketplace</u>, note 7.

III. FUTURE RESEARCH: SOME, CONSIDERATIONS

This preliminary study has found positive, albeit tentative, connections between flexible hours and employer-sponsored learning programs. It has also suggested, however, that this linkage will affect women in low status jobs on a significant scale only if other conditions also prevail.

In the immediate future, patterns within the workweek--the compressed flextime--appear, the more practicable. Even the potential advantages of flextime, the most promising work schedule, however, are likely to be best realized when companywide, well-developed education and training programs are already in Part-time arrangements, in contrast, first accord these employees eligibility to full-time comparable to their programs counterparts. Considering the current scene, the requisite expansion of part-time jobs which would encourage more continuous employment, i.e., a more regularized transition to and from now remains far more. full-time employment, doubtful.

To be of value to policymakers, any subsequent research should be broader in scope than was originally conceived by this paper. It must take into account: (1) the worktime-learning connection for employees at all job levels, men as well as women; (2) the practice of informal flexibility as well as the use of the particular schedules; (3) the shorter and longer range effects on well-being and mobility as perceived by employees as well as employers; and (4) the contributory role of other organizational strategies to encourage mobility, including ongoing support systems.



A more comprehensive investigation might also narrower in focus: Education and training be nonmanagement personnel, a comparatively recent concern, is translated into consistent practice by relatively few organizations. The degree to which such enterprises may also utilize time flexibility to enhance participation depends in large part on the stage of its commitment to employee development. In order to determine the value of one variable, subsequent study flexibility as would best confine itself to a selected few organizations which have reached a more advanced Management at these worksites has a more impelling rationale to examine education training programs and to make available necessary data.

Contained, in-depth studies at selected preliminary sites would determine more conclusively the feasibility of such schedules to enhance opportunities for low status as well as other workers. The 'County of Santa Clara, for example, offers various time schedules, a diverse population * and an active leadership. Its experience might provide a replicable example for private as well as public organizations, particularly as training funds are by cost reductions. Further investigation elsewhere, such Hewlett-Packard and Tektronix, would yield data for a more valid analysis of the capability of . different approaches to promote employee development in the high-technology growth industry.

But beyond additional data and specific site selection, consideration of the feasibility of new patterns to increase learning and of future research toward this end might also take into account some broader implications of this preparatory study: the effects of organizational



complexity, industry-education cooperation, differences between during- and after-hours scheduling, and changing organizational policies.

Organizational Complexity

especially important that subsequent study consider policy and process within organization, rather than at headquarters alone. Companies offering education tend to be large, with training structure at headquarters and several separate worksites. Continuing decentralization further diversify personnel practices as rising employers and employees discourage Education and training and geographic mobility. flexible worktime opportunities now vary widely within the same company, a result of (1) the size and function of each entity and its units, (2) occupational and job categories and levels. (3). the proximity of outside education facilities and. not least, (4) the inclinations of individual managers and supervisors.

initiation of innovative training The opportunities and of worktime flexibility may more likely occur at local levels. An in-depth study of Hewlett-Packard, for example, would examine how pervasive is the type of program in progress at its 43 divisions and what might one of necessary conditions. The Computer Systems Division in Cupertino was (at the time of this study) directed by a personnel manager especially concerned with increasing opportunities nonexempt workers. He had developed, in addition apprenticeships, a more usual program to train these employees to move to entry engineering positions. of Half participating 'employees were women. former secretaries and production workers who worked half time at regular pay and returned to school full time for a two-year period.



Elsewhere. in female-intensive industries (even in companies with active career development programs), eligibility for in-house and external training may vary substantially and among employee groups. At John Hancock, employees (about half of the total 20,000 U.S. employees) are unable to participate in reimbursed by tuition aid. Regulations confine eligibility only to those employees on the home-office-payroll.---(The-company has been considering extending eligibility to at least the clerical workers in field offices, particularly because they also lack opportunities in the career development program available to counterparts employed at headquarters.)

banking especially, the types of training opportunities are affected by geographic spread as well as by the traditional separation of functions the branch levels. The Bank of America, largest U.S. bank (highly rated for its employment of women as managers and officials), relies on job. rather than on formal upgrading programs office and clerical workers. Nor possible for corporate staff to oversee the its training programs are used at branch levels. At Wells Fargo (noted earlier as a reportedly mobility for women) the exemplary model of in-house development program_∢ career "catalogue" courses, have been used primarily by employées atmheadquarters. Occasionally, employees on the "platform" or credit side, rather than those, who are "operational" (tellers) may take part. The staff development quide, designed to encourage training of these other branch managers, emphasizes that "interest" employees by career goals will pay significant in employees' in staff morale and performance." dividends here, as in all highly decentralized However. organizations, branch managers have substantial



flexibility in the amount of training they develop.

This 'same complexity also complicates company efforts to systematize data on training, tuition assistance and on the use of flexible hours. Fargo, for example, some managers maintain that the thousand accounting units with separate would require at "Cadillac system accounting" to track how much is spent and which employee in outside seminars, internal programs and tuition assistance. Elsewhere, organizations have only started to establish computerized personnel records. Somé, like John Hancock, are prompted by the need for performance appraisals. In others, where employee development plans are less defined, managers are only establishing methods to organize training data in order to stimulate supervisor interest in training programs.

Industry-Éducation Cooperation

Subsequent investigation might also account of' the effects of the changing relationship between employers and educational institutions. Although in-house learning programs remain their highest investment, many companies mare, also turning to educational institutions fulfill some of their training needs. Community colleges, especially, are seeking older students, including a large part of the working population, as the golden years of the 1970s turn to declining enrollment of the 1980s. This relationship is requiring added efforts by each sector to increase flexibility.

It is important to realize, of course, that only <u>some</u> of these programs involve nonexempt workers. The largest part of employee-sponsored degree programs and short courses affect managers and professionals and are therefore not relevant

to this study. Peripheral, but of interest for future research as they may be applicable to a greater range of employees, are the flexible but limited term work-study schemes for high school students. In these, firms may fulfill a sense of community responsibility and also attract graduates to hard-to-find jobs.

The availability of low cost courses at local educational institutions may affect development of internal training programs nonexempt workers in several respects. It may a certain lack of management serve to explain interest in such programs, as appears the case at Hewlett-Packard. Polaroid, however, At presence of such institutions gives added impetusto the internal courses which serve to prepare employees for outside programs. At Tektronix, the more recent establishment of local colleges has content of internal the General education and cultural classes, which were when internal programs were first introduced later eliminated as community initiated. were courses became more available. program, which' then became occupationally oriented, may in the future expanded if, as anticipated, local outside sources are forced by budget cuts to reduce offerings.

Industry-education cooperation also bears on flexibility in both place and time. Probably only a relatively few companies assist employees with registration for courses taken off-site, but many more appear to be using the worksite for the jointly sponsored after-hours courses. Although instructors are usually company employees, credit is often offered when courses are taught by college faculty whose salary is also paid by the college. This convenience, especially when courses are offered immediately after worktime, may be as helpful to workers as are the flexibly



scheduled classes taking place outside the workplace. In areas where no such scheduling exists, flextime will make little difference. But elsewhere (as the "Early Bird" classes mentioned before), class times are more likely to coincide with the varying schedules. Employees may start work earlier or later or organizations may include these hours as worktime to be used for on-site training.

Employers both sponsor job-specific courses at community colleges. The number of companies that reimburse employees for nonjob-related courses is probably low appears that employees are less prone to general education classes even when costs are covered (generally at the rate of 50 percent). Usually, companies reimburse the fees of specific which job-related courses · such as those with technical familiarize nonexempt workers i.e., data processing, computer as But, programming. they are also increasingly sharpening basic skills , and concerned with technical writing, reading math. speed and "English as a Second Language" (ESL) courses tend to be offered in areas where employee populations include a number of recent immigrants.

Among the many issues which will be explored as organizations and educational institutions seek that this cooperation brings mutual insure whether or not the traditional is colleges responsibility of these maintained. On the one hand, industry-sponsored courses are needed to sustain enrollment. On the may also other, contracting with employers access of other adults including restrict the those who are not employees of the sponsoring firms. The potential danger also exists that the emphasis on vocational curriculum will reduce the institutional resources which have been



devoted to broader general education. Because many low status workers have had few past opportunities for such learning, the result would be to narrow even further their range of choice.

Worktime and NonWorktime Scheduling

The feasibility of new work patterns to increase participation in learning activities will also be affected by policy variations, on the use of worktime or nonworktime. Flextime may increase opportunities in both time arrangements, but its value to employees will also depend on whether employee or company time is involved.

In regard to nonexempt workers, there are indications that the content of training may be changing, causing a wider range of activities to take place on worktime. This is not to say, even as at the management levels, that training extends beyond immediate task orientation toward long term intellectual and human development. Rather, its votational orientation may also encompass long-range career development. Elsewhere and more generally, employer-sponsored learning may include the remedial basic education courses mentioned earlier.

As we have seen, companies vary widely in the degree of responsibility they assume for this enlarged content. At Hewlett-Packard, where even skill training on company time is of recent origin, reimbursement for outside learning is limited to more narrow job-related subjects. In contrast, at McGraw-Hill where a more broadly educated workforce is deemed desirable, the company maintains an active program of continuing education--some 67 courses, many carrying college credit. Here, too, these courses are scheduled after work, in contrast to the worktime classes which are described in the catalogue as "designed for immediate application on the job or



preparation for a job the employees' department head hopes the employee can assume."

Courses on company time of a broader nature are apparently more available to nonexempt workers at those sites in female-intensive industries where career development programs have been instituted. At Wells Fargo, at least one-third of the internal courses are open to "staff." At Connecticut General, worktime courses affecting nonexempt employees include those in "individual development" (career management, etc.), others in "communication" (writing skills and ESL), as well as in "continuing education" (typing, math, and degree programs).

The scheduling of courses listed in Polaroid's Resource Program for 1981" shows diverse distinctions. Management courses all takeplace 'on company time as do the technical skill classes for nonexempt workers. The classes word processing and secretarial skills vary seven take place on worktime, three employee time, and two on shared hours. ESL classes, ony one uses worktime, with two on employee time and three on shared time. Moreover, in "fundamental skills" (reading, those writing, math, academic equivalency programs tutor training) are on shared time. Company time taken only. in part, reportedly because supervisors do regard these skills as not immediately relevant. Even though managers may recognize that the lack presents problems, the acquisition of skills is not considered a company responsibility.

Future investigation might well examine the effect on participation of these varying schedules, particularly the use of shared time. The combined hours may be especially effective in increasing participation for upward mobility



programs. At the State of Connecticut, which has developed programs involving clerical workers, this scheduling is considered appropriate because the employer "gives some incentive and yet employees have to make some sacrifice."

Further study, then, might explore the degree which employees agree with some management perceptions of the limited potential of shared training time. The "infringement" of employees' time at a program at the United California Bank made for certain difficulties. A pilot program Wells Fargo was unsuccessful, for secretaries at reportedly because the women needed early evening hours for family responsibilities. explained that Hancock. it was training difficult for production worktime is clerical workers) and experiments with both sharedand after-hours schedules proved unsuccessful. The problem was caused by the need for carpools for the longer commute beyond the immediate Boston area, and possibly also by the need for second_ jobs. 'At least one company also felt that the employees in operating areas, who have set work quotas, often consider training as an "escape from the workplace."

Changing Organizational Policies

Workers' experiences are affected by their place in the organizational system and also by where the system happens to be at that moment. Subsequent study of flexible work and learning might also be aware that, although only some firms are at an advanced stage of employee development, others appear to be in the process of change.

Of the organizations offering significant learning opportunities and/or alternative work patterns to lower status workers, few deliberately use flexibility formally in order to increase learning. But one of the unexpected findings of



this preliminary study is that more firms than might be anticipated are recognizing the need for more broadly-based employee development. Some are considering new means to achieve this objective.

If this process were to continue in even a few firms, changes which appear minor in the context of the total labor market may still be significant at the specific enterprise level.

Some few companies have progressed beyond the learning opportunities as we have defined them to alter work itself so that it becomes a learning experience. Although their examples may be distinctive, they provide a frame of reference for subsequent study. In these organizations, the introduction of socio-technic systems and job rotation has redesigned work so as to increase worker participation, learning opportunities and worktime flexibility.

highly publicized The most of these at the taken place Harmon experiments has Automotive Division Plant in Bolivar, Tennessee. Learning is both part of the job and more formal in classes at the Harmon School. Job redesign has participation in decisionmaking and in self-management for many workers who have had only a few years of formal schooling. As employees share in productivity increases, they have been able to earn free time. Many of these free hours been used by employees to take part Since 1974 when the program started, classes. enrollments have been high in courses of basic special interest education, work-related or courses—and-health-and-safety. 1/

This type of continuous learning, however, remains unusual in the U.S., where training is aimed for the next job rather than at the whole person (as is more likely in Japan). Only a small number of large companies have developed



sophisticated training. Many more, especially those in the high technology growth industries, are in what may become the beginning stages of developing training programs.

In most companies, it is contended, management development is but the first step in the process. As managers at all levels become more skilled relations," they tend to become aware training needs and to gain the skills to put training ideas into practice. At the Weyerhaeuser Company in Tacoma, Washington, for example, this has also taken the form of a new kind of training for first line supervisors. A program involving emplovees which includes many nonexempt (those supervising a few others) expected to spread to several thousand employees at headquarters and other locations.

Much of the attention to employee development needs, as we have discussed, has resulted from the of equal opportunity laws regulations. Although the current political climate may substantially reduce implementation of affirmative action 'guidelines, change processes have been started. In the recent past, only a part of this change has involved. education and training directly. Many companies improved formal training whereby in-house training is available to all interested and extended eligibility under tuition emplovees assistance to include work-related rather than only job-related courses.

importance, equal opportunity issues to be dealt with in the larger often had overall personnel of policies practices. .2/ These concerns have also addressed as a matter for the whole organization the personnel department rather than particularly because the response to affirmative



action has come through regular job openings rather than through special programming. levels of management have had to be involved to extent in planning and implementation. additional result. certain interpersonal lowered in some instances. barriers have been gained not only the opportunity to Women have new technical skills. but also greater familiarity with what one manager has described as "corporate street sense."

introduction by firms of new means of "communication," especially quality circles. effects have long-range on expanding management awareness of the concerns of low status employees. . When employees meet together to solve the problems of the workplace, they are encouraged open broader dialogue. Experiments with quality circles, as a senior vice president of the of America commented, may also provide an of\ development skill for low status added type employees, a more effective exposure. Managers, especially at the corporate level, "may begin to look at employees differently and change their sense of lower expectation."

All the requisite conditions which will, in determine the applicability of new participation patterns to broaden education and training opportunities mav subsumed in this--management's changing perception both as employees and as individuals. of workers. president of a growing electronics As the vice "Let's distinguish between what firm commented. we'd like to do and the way we'd like to be and are now." As their expectations where we managers are more likely to raised. for worker · learning and for worktime Only then may the potential gains of flexibility. this linkage be realized.



NOTES

1. The Bolivar Project Progress Report February 1978. Prepared by the Harvard University Project on Technology, Work and Character (mimeo), pp. 24-25.

2. See note #I-6, pp. 20, 27.

IV. ISSUES FOR FUTURE POLICY

Designed to test the feasibility of further study, this investigation has, nonetheless, raised several broad policy questions. Employers considering procedures to improve employee productivity and to enhance career opportunities might examine these implications.

. Fundamental to these issues is the question of how management will resolve increasing pressure to business costs, Will training and education investments be among the first budget items to be severely reduced or eliminated, as is often the case? Might they, instead, be more closely scrutinized for most effective utility? Considering the informality, diversity and private character of employer-sponsored /programs, it is not surprising that so little aggregate data exist effects of these activities. unexpected is the frequent lack of consistent data If. within individual enterprides. are . now ' to make more rational determination of optimum levels and allocations for these investments, they may be prompted to systematize the necessary information.

Such an assessment of the efficacy of training and education would bring into judgment a range of questions now largely ignored. What is or be the priority of training expenditures calculated in relation to total labor costs, including, for example, recruitment, turnover and relocation? In terms of total job requirements, might managers wish to determine 'more exactly the optimum relationship between learning that takes place on and off the job? Beyond equity values, might they also consider whether the concentration nonexempt level of training for than for improvement skills rather for future duties all enhancement is.



instances, the most appropriate for perceived longer range organizational needs. In regard to tuition aid benefits, might policymakers then re-examine the limitation of reimbursement to courses which are immediately job-related? Might some of this assistance be broadened to include a greater range of educational offerings so as to benefit employer as well as employee (as was presumed by the 1978 legislation amending the Internal Revenue Act to cover wider tax deductibility)?

Policymakers may also be moved to question the. in which better connections with educational and technical institutions affect costs, course content and enhanced employee participation in learning. Because some companies a degree of already assume responsibility for personal counseling, might these. other types of and other organizations consider the value of a corresponding, role for educational advising? Finally, in this review process, might management also become better aware of the degree to which employee participation in nonmandatory education and training may be motivated bу organizational policies -- not only those affecting internal mobility, but the less complicated introduction of flexible workhours?

Consideration of new work schedules poses a related set of issues. In evaluating which schedule or combination of schedules will succeed, management will want to make 'judgments on the technologies dependent and social characteristics at each enterprise and location. Decisionmakers must take into account the specific problems new time patterns might solve or they could alleviate, the employee preferences and the constraints that need to overcome--regulations and legislation, and adjustments in supervisory attitudes. They would



be better able then to address the additional questions that must be answered so that these new schedules, in addition to other mutual advantages, might also significantly expand, participation in education and training.

the fact that the effectiveness Despite time flexibility in widening employee involvement efficacy for greatest on organizational policies and local conditions. in fact, offer choices for these patterns can. learning to nonexempt workers hitherto generally available only to management. Whereas the shorter workweek is more narrowly restricted to particular technologies, flextime is broadly applicable to a variety of c∰mpanies. It is also well-suited expand both worktime and nonworktime for education In considering this training. will need to evaluate which emplovers ensure, for example. procedures will best hours are open for on-site activities, rather than limited to core hours.

issues arising from utilizing reduced workhours for learning are more complex they involve intrinsic changes in the perception of part-time employment. Nonetheless, management might usefully examine the now singular examples in their several enterprises to determine a wider range of employees, job categories and levels might amenable part-time prove to Part-time employees would thus be more schedules. to take part in and be better able encouraged afford education and training at ·their aid benefits to part-time Tuition expense. employees miaht also then be more practicably on a wider scale than is now the extended case. connection, policymakers might find this replicable in the long-standing experience work-study schemes involving younger adults. looking to the future, leaders in business,



education and government might together examine the implications of a new form of temporary worksharing—a combination of part—time work with education and training.

A final question asks whether employers ought to look to special programs that concentrate on making the time-learning connection for women at lower job levels. Doubtless, the 80 percent of women still confined to low skilled jobs would benefit. However, given the danger of further occupational segregation, such programs might more profitably be integrated in overall personnel policies.

Women, as well as men, in lower status jobs will gain when these policies reflect a broader would recognize that which work and learning can proceed together: that education limited to early years, be continuing education to employees already more "credentialed" likely to or to the acquisition of narrow skills obsolesce within the next decade. It acknowledge, too, that rigid work schedules -- which restrain continued learning--are not necessarily equated with efficient job performance.

Might not the price of uprealized opportunities in individual and organizational growth prove more costly than those incurred by the introduction of such related quality-of-worklife measures?