



Houghton appointed new registrar

Robert O. Houghton, acting Registrar since June 1972, has been appointed permanent Registrar as of April 1.

A graduate of Stanford, Mr. Houghton received an M.B.A. from Harvard in education administration. He has been at Stanford since 1953, first with the accounting office and later in the Registrar's office. Most recently Houghton has held the position of associate Registrar and then acting Registrar when Harvey Hall was selected to be University Ombudsman.

A special presidential selection committee headed by Robert Rosenzweig interviewed over two dozen applicants for the job before choosing Houghton. According to Rosenzweig, "we were persuaded by the students and staff members who have worked with Houghton that he was the best man for the job. A number of other qualified applicants, some with Ph.D. degrees, would have been quite satisfactory, but we could not overlook Mr. Houghton's experience and exceptional leadership capability as reflected by the support from his staff."

The job of Registrar has customarily been an extremely important position at Stanford. Before the size of the administrative and student service divisions reached their current bulky proportions, the Registrar was effectively the number two man in the administration. He was charged with responsibility for gathering and maintaining all records, academic and non-academic, on students as well as allocating most of the educational resources of the undergraduate school.

For this reason Stanford's Registrars have had a remarkable longevity in office. Houghton is the fifth Registrar in Stanford's eighty-year history.



Robert O. Houghton



Is Lake Lagunita doomed? We hope not. Prospects for its future development are outlined on page 2.

Harvey Hall, a strong supporter of Houghton, commented that "Stanford is extremely fortunate to have someone of Bob's skill in this office. It takes at least ten years to completely understand the job, and another ten to become comfortable with it. Every day it seems like there is a whole new spectrum of demands and decisions channeled in to the Registrar's office."

The changing characteristics of the Registrar's responsibilities were also noted by President Lyman in giving the charge to the search committee: "While in the past, registrars have been primarily effective organizers of information and personnel management, the new registrar will have to understand the long term priorities of the University and work with many rather specialized sections of the administration. He should be a generalist, and yet be competent to evaluate needs for computer automation, legal aspects of privacy, and long term financial planning.

"And like all of us in the modern university, he must be both responsive and firm to the demands of the student population."

Houghton himself elaborated further on his new position. "I've been asked frequently how anybody can follow in Mr. Hall's footsteps. Well, I certainly don't know. So much of the present operation has been created by Harvey

that it will be years before I will feel I can make any major improvements.

"Of course, the pressure for automating many of the registration and record keeping aspects of the office is forcing us to move into new areas. And such a change can't be done without a lot of upheavals."

Houghton expressed special concern regarding the financial decisions facing the new Registrar. "It used to be that decisions were more or less incremental, hiring a person, developing a new procedure, and so on. But automation of our records is an all or none process. And since our records are ultimately transferred to the fund-raising office, they must be compatible with their uses also.

"In fact, all of the University's record-keeping divisions will be tied together by the new SPIRES project. Without very careful and continuing re-examination of the costs this could become an accounting nightmare. We certainly don't expect the students to pay twice the cost of the present manual system unless there is some real value in such rapid accessibility to student files."

The problem of privacy has already become one of Houghton's major worries.

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Future bright for education of undergrads

"Stanford has no intention of phasing out any major area of undergraduate education," President Richard Lyman stated before the Academic Senate on Friday.

The declaration came in response to a recent report by the Provost's Committee on Long Range Resource Allocation. The commission made a series of recommendations for the financial improvement of the University, among them the suggestion that undergraduate education at Stanford be phased out over an eight-year period.

The areas of graduate education and research would remain largely intact, with a small increase in faculty.

The commission analyzed Stanford's income and expenditures over the past ten years, confirming its conjecture that student tuition covers a bare 40% of the actual cost of a college education. By eliminating both the expense of educating students and the tuition, the University would show a net gain in assets.

"When one considers the costs of housing, health care, athletic facilities, etc.," the Commission reported, "it is apparent that undergraduates act as a financial drain on the University."

The Commission, however, recommended the retention of Stanford's libraries. It felt that as an academic institution, Stanford must have libraries, even if undergraduate students are no longer a part of day-to-day operations.

The elimination of undergraduate programs would also benefit other sections of the University, the Commission found. Freed from the confines of teaching, professors would have more time for research and publishing, leading to greater prestige for them and the University. Faculty, the report shows, could then get more money for federally-funded research than Stanford is paying them now. Salaries could be cut, with no loss of income for the present faculty, and more faculty could be hired with the resultant savings.

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Expert views future of Lagunita as murky

Rising maintenance costs and a declining budget are making it more difficult to preserve Lake Lagunita and its facilities, according to Larry Wasserman of the Water Resources Staff of the University's Resource Management Group.

Wasserman, a 1957 graduate of Stanford in civil engineering, wrote his master's thesis on "The Effervescence of Rocky Mountain Spring Water" and has been on the Resources Staff for ten years.

The Lake, situated between Junipero Serra Blvd. and the main part of campus, is a former meadow that now is filled each winter and spring with water from Searsville Lake impounded behind a levee.

Says Wasserman, "Every year, we must drain the lake, repair the dam, plow the weeds under and clean up all the junk down there. Like everything else, the cost of these operations has been going up every year, while our budget has been getting reduced.

"But now, we may have to dig up the drain pipe, which has become clogged with silt, and nobody knows yet what we'll do about the Boathouse."

The Boathouse, which has been condemned for two years, is a fire and safety hazard. The rooftop porches were recently closed to the public after a man fell through the roof. Both demolition and rebuilding costs are too high to allow action.

Moreover, the local Committee to Save the Boathouse has gone to court to prevent the destruction of the old building.

Other problems have included water safety (there are no lifeguards), and mosquito abatement. Adds Wasserman, "We also have had an increasing pollution problem in the past two years, especially from a strange, foul-smelling white foam along the shoreline nearest the fraternities."

The Army Corps of Engineers is also interested in Lagunita. The Corps submitted a plan to widen and lengthen the San Francisquito Creek flood control channel to the State Public Works Committee in Sacramento last week.

The plan, part of their master plan to divert Peninsula flood waters to where they are needed most, involves a possible extension and heightening of the Lake to increase its emergency capacity.

A Corps spokesman stated that the increased recreational values (the new lake would be long enough for the Stanford crew to row in), would more than offset any disadvantages, such as flooding of part of the golf course and driving range.

However, the Corps is likely to be held up for some time by court action initiated by local conservation groups, who seek to preserve San Francisquito Creek under an extension of the California Wild Rivers Act.

Yet another possibility for the Lake involves the proposed move of the Hopkins Marine Station, which could use the boathouse and lake for dolphin training research under their recent Navy contract.

"This would cut down on the recreational uses of the lake," said Wasserman, "but the increased income would more than pay for maintenance of the lake."

Don Bass, a graduate student at the Station, commented however, "I'm not sure that the environment at Stanford is very good for fish." No one else at the Station was available for comment.

Wasserman denied rumors that the lake was being phased out, but did admit that, "We may have to lower the water level in order to save on levee repair costs."

Head of plant services Dan DeYoung is equally uncertain about the future of the lake.

"The problem is becoming critical," he stated. "The levees are old and leaky; another season of heavy rainfall could conceivably cause a real break and a serious flood on campus."

"It may not look like a lot of water but if you poured it all out on a small area of campus it would cause a tremendous amount of damage."

A number of additional solutions have been suggested by DeYoung's office over the last five years. One of these, coating the lake bottom with a plastic substance, has recently come up for re-evaluation.

According to DeYoung, "The initial expense of coating the lake bottom would be high, but the maintenance costs would be much lower than at present. In addition, we could have a year-round recreational asset for swimming, water skiing, motor boating, and so forth."

Alumni have also expressed an interest in preserving Lake Lag. Thomas Newell, director of the Alumni House, attributed most of the interest to nostalgia, rather than any expected usage.

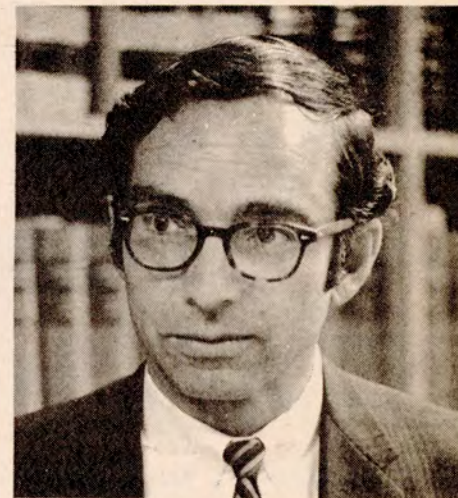
"Of course, there are some facilities such as a dance pavilion-reception hall that could be very useful to alumni groups. If there is any major fund drive for the lake restoration, I think we would want to see something fairly specific for alumni use."

There has also been speculation about the use of the lake for the Big Game bonfire. DeYoung doesn't feel that this is an insurmountable problem.

"At worst we could put in a concrete pier with a large gas jet. This would be

much safer and less polluting than the past bonfires which have spewed cinders all over the campus."

Unfortunately all of the possible solutions to the Lake Lagunita problem are expensive. In this era of tight budgets, there may not be sufficient funds for a permanent solution. According to the General Secretary's Office, "Whatever stopgap measures are adopted, there is no intention of phasing out the lake at this time." But its future appears murky.



David Weber

Weber reveals expansion plan for University libraries

Speaking to the Stanford Trustees today, Director of Libraries David Weber outlined a new library expansion program that "will catapult Stanford to the lead in the number-of-volumes race."

The innovative program has been under experimentation for the past three years. It began in 1970 when Stanford secured the library holdings of the bankrupt Weinegeist Universitaet at auction.

Unfortunately, the library budget for that year had been overspent and Stanford, unable to complete the purchase as planned, received only the card catalogue.

Initial concern over the absence of the books disappeared in 1972 when it was realized that the library had never received complaints over the absence of the Germanic literature section.

Recognizing the inherent possibilities, the Committee on Libraries formed a search committee to secure future card catalogue purchases.

"By using such a system," said Weber, "in ten years Stanford will be able to boast of the greatest number of

catalogued books of any university in the world."

At the trustee's meeting, Weber announced that an agreement has been signed with M.I.T. to purchase their card catalogue, following their conversion to super-microfiche.

Following the absorption of the M.I.T. listings, the library's holdings will contain more than 9,200,000 cards.

Thieu to speak

President Nguyen Van Thieu of the Republic of Vietnam will lecture in Dinkelspiel Auditorium on Friday, April 6, the Committee on Public Exercises has announced. President Thieu is visiting President Nixon at the Western White House at San Clemente early in April and has agreed to talk at Stanford on the subject of "Security Problems of Under-Developed Countries." After the lecture, questions will be answered.



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Stanford's library system will soon contain 9,200,000 cards.

Report defends decision to deny credit for Shockley course

The Committee on Undergraduate Studies (CUS) has determined that a genetics course proposal by Prof. William Shockley would have been "in conflict with academic freedom."

The Committee made the finding in a 61-page report delivered on March 8 to President Richard Lyman. It upheld a decision last summer by the Stanford Workshops on Political and Social Issues (SWOPSI) to deny credit to Shockley's proposed course on "genetic factors in intelligence."

Special attention in the CUS report was devoted to SWOPSI's criteria in judging the course and to whether such criteria were consistent with the requirements of academic freedom.

The report from CUS stressed that while the criteria publicly identified by SWOPSI as the basis for its decision were "too vague" for future use as a "formal yardstick," the "in-house evaluation (of Shockley's course) by the SWOPSI Board proved to have been grounded on substantial issues."

The CUS inquiry determined that the major element figuring in the SWOPSI decision had been the competence of Shockley, a physicist, to teach a genetics course. This, the Committee found, was "properly in accord with the University's structural format of specialists united in departments instructing and researching their areas of expertise."

The Committee went on in its report to draw an analogy to the medieval guilds and to universities as guilds of scholars. Shockley, according to the Committee, should recognize "his status as an apprentice at best in the field of genetics" and should not attempt to "elevate himself" by "extensive but professionally degrading propaganda" in the mass media.

The wording of the CUS report expressed "strong concern" over the "overly vague standards" publicly given by SWOPSI and declared that it would have been preferable for the SWOPSI policy declaration to have adhered more directly to the actual grounds of the discussion within the SWOPSI Board.

The reasons originally given by the SWOPSI Board in July 1972 were that (1) the subject is too controversial for these troubled times; (2) Shockley's competence to teach the course is questionable; (3) the class might be disrupted; and (4) Shockley's statistical methods are too sophisticated for undergraduates.

The CUS report affirmed that reason 2 was sufficient to reject the course and said that its investigation showed that the actual decision-making process in the SWOPSI Board had revolved around this issue, whereas the others were "unfortunately" added in the drafting of the SWOPSI policy statement by a "hasty

SWOPSI volunteer staffer."

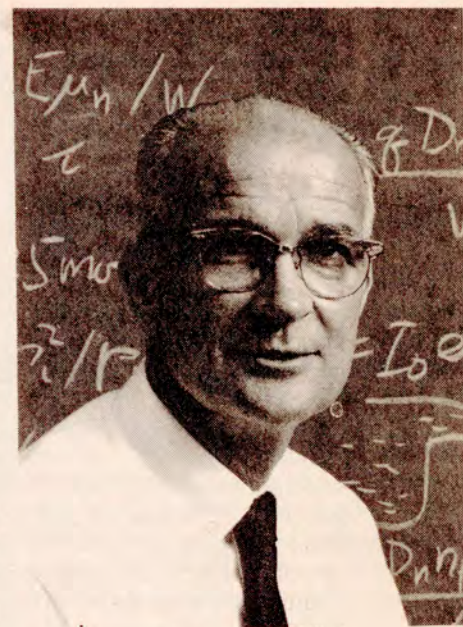
The Committee noted that this was further reason for professionalizing SWOPSI and integrating it fully into the normal University organization.

Addressing itself directly to the issue of academic freedom, the CUS report relied upon recent University precedent. Referring to the firing of former English Prof. H. Bruce Franklin, the committee said, "Academic freedom is at once a concept and a policy that cannot be meaningfully discussed outside the context of the purposes and nature of the university."

Franklin's case, according to the Committee, was seen at the time by some as an attack upon academic freedom. But the Committee added that "now it is generally recognized that Prof. Franklin himself represented a threat to the freedom of members of the academic community to do research of their choice for public agencies and other outside institutions."

In the case of Shockley's proposed course, the CUS report points to the institutional purposes and goals of Stanford as a university and finds that the SWOPSI-sponsored genetics course would have been in conflict with academic freedom.

In a section that received the approval of all members of the Committee, the report declared that "Stanford's



William Shockley

humanitarian commitment to affirmative action in the hiring of women and minority groups would be mocked by the very existence of Shockley's course."

The same section of the report emphasized that the academic freedom of researchers in Stanford's School of Education could be threatened by the Shockley course.

"In a time when Washington officials, on whom our academic freedom depends as one of the nation's great universities, are cutting back on needed academic inquiry, Stanford must not imperil the freedom of its own dedicated researchers by taking a path that others will view as institutional self-doubt."

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Computer to worship Provost in study of religion

At first one might be surprised to learn of the religious studies being conducted with the support of the Atomic Energy Commission at Stanford's Linear Accelerator Center. What has religion to do with the AEC's responsibility to help our nation meet the energy crisis? What can be learned about man's highest qualities and aspirations in these cold antiseptic surroundings, amid the whirring of tape drives and the clicking of countless transistors? What spiritual principle motivates the quarks and protons and other "strange particles" (as Professor Panofsky calls them) as they whiz down the two-mile tube and crash into the giant IBM 360 model 91 at the far end?

Provost William F. Miller, who is also Professor of Computer Science, took time from his many duties to answer these and many other questions for *Campus Report*. "The essence of the matter," Provost Miller said, "is that the energy crisis is just as much a deficiency of spiritual energy as it is of electric energy."

"It is wrong for the AEC's scientists to concentrate their efforts on plugging only atomic energy, and Stanford is taking the lead in this necessary redirection of our efforts."

Provost Miller pointed out that as youth of today are rejecting the "myth of objective consciousness," it has become increasingly important to create new myths suitable to our time and to show that science, rather than being an enemy of religion, could work in harmony with it.

"We are applying the systems approach," he said.

According to Miller, a major contribution to the computer study is obtained in the forthcoming Ph.D. thesis of Susan Gomez y Avila entitled



Ms. Susan Gomez y Avila

"Simulation of Religious Systems in the Computer." Ms. Gomez y Avila explained her work as follows:

"Religious behavior consists of praise of the deity, prayers, i.e., requests for blessings of various kinds, confessions of misbehavior, meditation on the perfections of the deity, and efforts to bring the truth to others."

"We have simulated this behavior according to a variety of religious systems in order to optimize the S.E.Q. or spiritual energy quotient. Our subroutines exhibit all of these forms of behavior."

"Each 'believer,' Ms. Gomez said, "is represented by a subroutine operating in the memory of the computer. It interacts with other programs and with the main program that represents the world. It generates prayers with the use of a transformational grammar, and the operator by pushing buttons on the console can decide whether to grant the prayers or not."

"Sometimes one subroutine will try to convert another one to its belief."

"What religion do they believe in?" I asked. "Are they Christians or Moslems or what?"

"That was a difficult matter to decide," she replied. "Because Stanford is non-sectarian, I mean. It would have been

contrary to university policy to choose a particular religion."

"Finally, we decided to have them worship the provost. It's ex-officio, of course. If Dr. Miller were no longer provost, they would worship his successor, although some of the prayers wouldn't make sense if the provost weren't a computer man."

"What are these prayers?" I asked.

Ms. Gomez pointed to a stack of computer printouts about four feet high, and I remembered that in coming to her office I had barely been able to squeeze between the piles of computer paper lining both sides of the corridor. The output was on the whole rather monotonous, with some lines repeated for dozens of pages without change.

Some of the more common messages were: "There is no programmer but Miller, and subroutine BELIEVE is his prophet."

"Be fruitful and recur and fill all of core memory and yea, fill the disc file too."

"Oh Miller, oh AEC, oh IBM, install us two 168's so that we may worship thee forever."

Ms. Gomez explained that one subroutine regarded Miller, the AEC, and IBM as the three aspects of God.

"Trinitarian subroutines have certain advantages. For one thing, they survive parity errors in memory better, because of increased redundancy."

Ms. Gomez said that these worries were peculiar to subroutines written in a language called LISP.

I noted that some subroutines seemed to confess more sins than others. I was informed that the intensity of guilt feeling was a parameter that could be adjusted by the operator.

"In fact," Provost Miller said, "the main result of Ms. Gomez's thesis is that turning up the guilt parameter results in increased confessions only temporarily. After that an adjustment takes place and the printouts express more concern with the 'sins' of other subroutines."

"Some of the prayers call for other subroutines to be dumped onto magnetic tape or even deleted."

"What do you plan for the future?"

"As was mentioned in the printouts, the AEC does intend to install two new computers here at SLAC so that the work can go forward faster. The present computer is not really large enough to simulate crusades and other large scale religious phenomena."

"Other government agencies are also participating in the religious revival. For example, NASA is working on astrological engineering, including plans to prevent unfavorable conjunctions of the planets."

I asked Ms. Gomez for her future plans.

"Oh, I have already had seventeen offers of assistant professorships," she said. "You see, I am good for three points in affirmative action programs."

—Jeff Littleboy

Campus dogs institute suit

Law Professor Anthony Amsterdam has filed a request for a temporary restraining order against the administration of Stanford University with the Federal District Court of Northern California. The suit charges Stanford with violating Section 1984 (U.S.C.) of the 1964 Civil Rights Act, and requests relief in the form of an injunction barring the University from "denying rights or privileges to any class of persons who have, in the past, enjoyed those rights or privileges, in the manner that such denial will constitute a violation of due process."

The order would have the effect of barring the University and the Santa Clara County Sheriff's office from enforcing the campus leash law.

"What we have here," said Prof. Amsterdam, "is a flagrant attempt to circumvent and nullify my clients' Fourteenth Amendment due process right through an arbitrary and irresponsible use of administrative discretion." Prof. Amsterdam is acting on behalf of Conrad, Oscar, and Duchess, three dogs who frequent the Stanford campus, accompanied by their masters. The dogs' masters, having heard about the impending enforcement of the leash law, asked Amsterdam to institute a class action on their behalf.

Amsterdam, famous for his part in capital punishment cases, and a nationally renowned lawyer and author, took the case without fee.

"It is an honor to be a part of this action. The issues involved here are more than whether dogs defecate on the walkways — it is a question of protecting our constitutional safeguards from the

tampering of an irresponsible administration," Amsterdam remarked.

"The central question is the 'grandfather' principle — whether a right that has been enjoyed for a number of years by a group of individuals may be suddenly and totally removed. If a man has access to a river with the unspoken consent of the owner of the land he must pass through to get to that river, the right of access becomes his even though he has never been formally granted it. If dogs are allowed the free use of an easement through a section of property, then that easement may not be taken away without good cause.

"Section 1984 of the Civil Rights Act of 1964 insures that no one may have his rights denied without due process of law. In this case, the dogs have had one of their fundamental rights, the right of access to a common, public area, denied without a hearing, without a referendum, without any semblance of due process.

"That is what we are fighting," Harvey Hall, the University Ombudsman, who is often involved in dog complaints, said that he was completely surprised by the action. "I think the University has been very open and fair in this issue. I'm disappointed that this couldn't have been worked out outside of the courts."

The suit has not yet been ruled on by the Federal Court, but speculation is already running high on campus as to possible legal and social ramifications if the court grants the injunction.

Appearances of Oscar and Duchess have already been announced for Canine Liberation Movement meetings.



Anthony Amsterdam



Conrad

Williams joins History Dept.

Dr. William Appleman Williams, professor of history of Oregon State University at Corvallis, will join the American history faculty at Stanford next fall.

The announcement of Williams' appointment to this tenured post and a welcoming statement came from department chairman Gordon A. Craig, who also headed the search committee that selected Williams as its unanimous choice.

Williams will formally join the Stanford department in September, where he will fill a place in the department's ranks that has remained open since the death of the late David Potter.

Williams is best known for his work in American diplomatic history. His book, *The Tragedy of American Diplomacy*, is considered by many scholars to be a seminal reinterpretation of the origins of the Cold War.

Other works by Williams on foreign relations include *American-Russian Relations, 1781-1947* and *The Roots of the Modern American Empire*. In *The*

Contours of American History, Williams complements his account of U.S. foreign policy with a detailed treatment of domestic policy.

Both Williams' published works and his teaching ability have influenced a widening circle of admiring historians. Williams' graduate students at the University of Wisconsin at Madison are now in the front ranks of the new upcoming generation of history professors.

Speaking of this aspect of Williams' appointment to Stanford, Prof. Don E. Fehrenbacher commented, "A professor like Williams, whose teaching has inspired historians like Gabriel Kolko and Walter Lefebvre, deserves a setting in which his ideas can reach the fertile minds of top-rank graduate students. We hope Stanford can provide Williams with such a setting."

Adding his words of welcome to those of Craig and Fehrenbacher was emeritus professor Thomas A. Bailey. Bailey said, "My own fields of interest have in many ways been the same as those of Prof. Williams, and I must say his innovative work has been of great help to me, especially in throwing new light upon the presidency of Franklin Roosevelt."

Shockley . . .

(continued from page 3)

"Academic freedom is not the freedom to teach astrology in the Aeronautics and Astronautics Department. If all academic standards and unity of purpose are dropped by the University, a new McCarthyism will arise in Washington to sweep away all prior federal funding commitments."

In a public response, Shockley said, "My three moral postulates, Truth—Concern—Death, lead directly to the ethical imperative of a public policy directed at our nation's growing human quality problems.

"If scientific evidence can be adduced which is solid enough to show that 'population pollution' and 'genetic slavery' are in process, then this should be of concern in a democracy.

"The possibility that an emergency situation confronts us does not seem to move the Stanford Committee on Undergraduate Studies, but it should vitally concern all those sensitive to moral issues."

Shockley added that what he calls the "Apple-of-God's-Eye obsession" leads many academic intellectuals to believe that men possess "some sort of right to their bad genes." But Shockley said that his own scientifically-grounded ethics showed that the "dysgenic effects" that might be occurring in the Caucasian and Negro populations are morally equivalent to "poisoning a well."

Grant for re-education of school teachers

A new program in faculty re-education will start this coming Fall at the School of Education. A recent Ford grant enabling faculty members to return for a year of teaching experience at the elementary and high school level provided the funds to get the new program started.

Dean of the School of Education Arthur Coladarci explained that "The School of Education has always recognized the need for contemporary experience on the part of its faculty members. We owe it to our students."

Coladarci also indicated that he would take advantage of the new opportunity himself. "I plan to spend next fall at Ravenswood High School teaching three sections of history and civics."

The problem of teaching experience has recently been a subject of controversy between students and faculty at the Education School. Students claim that many of the faculty have never had the opportunity to try out the methods they teach to students at Stanford.

Jane Huseby, a leader of the Education Students Association, claimed that only two of Stanford's tenured faculty members have ever taught in the public school system. She indicated that students were concerned about the potential for miseducation inherent in the complete separation of theory and practice.

Mrs. Huseby was hopeful that the re-education program would bring a



Arthur Coladarci

new atmosphere of relevance to the School of Education. "I will certainly have more respect for a professor who has actually worked in a public school, teaching a hundred and fifty unmanageable little creeps every day," she stated.

When asked who would take over as Dean next year, Coladarci suggested that perhaps it was time the School of Education adopted a policy of rotating the position among the professors at the school.

"I really haven't discussed it yet with the other tenured members of the Education School, but it seems to me that a rotating deanship would stimulate a lot more imagination in this field than we've seen in the past."

Coladarci also implied that the new program for re-education might release some of the pressure on the younger faculty in the school. "We will

certainly need to keep on some of our younger professors to fill in for those on leave," he stated.

"We haven't worked out the financial aspects of the problem yet, but if we have four or five faculty members receiving salaries as regular public school teachers, we should easily be able to support their replacements within the present budget."

Mrs. Huseby felt confident that the younger faculty members would be able to fill in for their more experienced fellows. "You have to realize how fast education has been changing," she commented.

"It's like being a doctor; after ten years out of school there are whole areas of study that you just aren't familiar with. And in education all the specialties have to inter-relate or the program becomes a mish-mash of unrelated ideas."

She felt that most students were grateful for the expertise that Stanford faculty have in their areas of specialization. But both students and faculty have a great deal to gain from broader perspectives and experience.

Next year only three professors, including Coladarci, have expressed an interest in taking their re-education leave. This number is expected to rise to four or five per year for the remainder of the grant. The enabling Ford grant runs for three years and may be renewed for another three if the program proves successful.

Road building plans revised following cut

Federal funding cutbacks have forced a postponement in Stanford's three-year, \$11.2 million road rebuilding program, University Master Planner Oscar Nelson announced Monday, March 12.

But, he insists, "that doesn't mean we're going to let Palm Drive disintegrate into a tire test-track."

"We plan to install speed bumps the length of the road," he told campus radio station KZSU. "That way we can keep the road clear for those diehards who really want to chance the Arboretum intersection."

According to Nelson, 96 of Stanford's 98 roads (97.9%) were scheduled for rebuilding and resurfacing. "We've all managed to get along with the present roads for the past 20 years, so why change now?" he asked an interviewer.

He says that ongoing programs, including widening Campus Drive to four lanes in each direction with a multi-level cloverleaf intersection at Palm Drive, will continue at least through the end of the school year.

"After that, we'll do what we can — no more, no less," he promises.

A major part of the University's new five-year beautification program, Nelson notes, will be the removal of nearly 700 palm trees from the main campus area. Five new "artfully screened" 12-acre parking lots are now under construction just off Palm Drive, he adds.

Nelson, meanwhile, says his office is continuing to draw up relocation plans for Beta Theta Phi, the International Center, Theta Chi, The Bridge, Cowell Health Center and both Grove Houses so that Campus Drive can be widened throughout the campus area.

He says that two firms, Utah International and International Telephone and Telegraph, have approached the University offering to build a new I-Center-petroleum engineering complex, and that an unnamed benefactor from the Medical School has offered to transplant Mrs. Harold Bacon's rose garden.



Due to a reduction in federal commitment, Stanford roads will remain in less than completely satisfactory repair.

'Workers docile,' says Kuhn

Thanks to a passive education, it is doubtful that students entering the work force will cause any disruption for the American businessman.

But corporate executives should not be complacent about dealing with radical agitators in the 1970s, because a lack of vigilance may result in labor turmoil reminiscent of the 1930s.

These comments were made by James W. Kuhn, visiting professor of economics and public policy at the Stanford Graduate School of Business, during a speech delivered to the Stanford Business Conference.

"There is very little statistical evidence of actual labor unrest. Casual inspection of these data... does not reveal any marked changes outside of those caused by seasonal and cyclical fluctuations."

In any case, he continued, "increases in either turnover or absenteeism may reflect not worker discontent but new or

additional alternative ways for workers to spend their time — looking for other work, preparing for another job, or caring for personal and family needs."

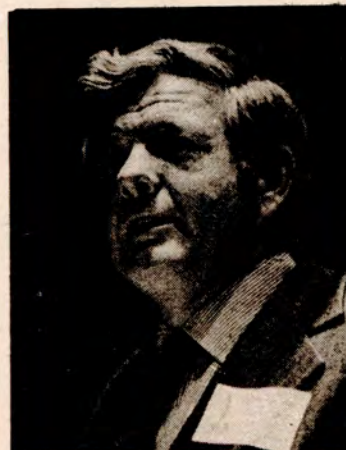
Kuhn does not look for much labor unrest to come from high school and college graduates because "our educational system has taught them to abide by meaningless, petty rules and regulations, to suffer long hours of empty courses without overt protest, to idle away time in busy work, and to celebrate technique over substance — to elevate form over value."

"Twelve or more years of such schooling is a powerful force for conformity, passivity and dullness."

Ms. Glenda Jones, president of United Stanford Employees, took strong issue with Kuhn during a press conference last week.

"In order to prove that Kuhn is a liar and a fool we have launched an all out organizing campaign at the Graduate School of Business and at his home. Currently scheduled to strike are his chauffeurs, butlers, maids, bartenders, and cooks."

Jones admitted difficulty in organizing his permanent staff of gardeners because "the Teamsters got to them." She announced that she was turning the matter over to the United Farm Workers Union.



James W. Kuhn

Journalism grads find challenge in their profession

Newspapers are not benefitting from the talents of Stanford journalism graduates. According to Lyle Nelson, chairman of the Stanford Communications Department, only one 1972 graduate, Frank Murray, is currently working on a city newspaper.

The rest of the class has obtained jobs writing on corporate newsletters or for company "house organs," and several students were unable to secure any job at all within the field.

Statistics from the National Media Center show that 75 percent of the college students graduating in journalism today join the staffs of some community or city newspaper. William L. Rivers, communications professor, seems unconcerned by the failure of his students.

"I don't consider it a failure. These students are getting a chance to immerse themselves in the real world of the corporate system. After all, how many fires and board meetings can you cover in one week?" he commented.

Cindy Burke, a 1972 graduate, is not disillusioned by her job with Honeywell. She is in charge of reporting employee activities within and outside the company, achievements, and attitudes, and coordinating them into an informal newspaper format.

"I like this job," she says. "I am able to be a mouthpiece for these workers in a company like Honeywell. I can also be a molder of public opinion in this position."

L. Frank Murray is currently writing for the *Dairyville Daily* in Arkansas. "I personally would rather work where I do. You meet the nicest people. I am able to cover all the social events in town and find out what everyone is doing. It's really exciting."

The prospects for 1973 are hard to project this soon. The journalism class of 89 students boasts of much experience in the field and a high level of ambition, Nelson says.

One student sees the *New York Times* as a future dream. "I'd be satisfied with a job editing or writing for the newsletter of a company like Ford Motor or IT&T," Stuart Mitchell, a member of the 1973 graduating class, commented.

New overseas campus

"As soon as the ceasefire takes hold in South Vietnam, Stanford will open an overseas campus in that war-weary nation," President Richard W. Lyman told a dinner meeting of the Stanford Associates in Los Angeles on Monday, March 12.

"We believe that Stanford can play a vital role in helping to bring to South Vietnam a peace that will last."

"Students can play an important role in educating the people of South Vietnam to insure political stability, while at the same time learning of the life of the average South Vietnamese person," Lyman said.

Present plans call for a campus in a strategic hamlet somewhere in the Mekong Delta. Associate Provost Robert Rozensweig said that the purpose of the location "is to give the students the best of two worlds — urban life in a rural setting. "If we were in Saigon, the student might miss the flavor of the jungle countryside."

"Governmental security in strategic hamlets is sufficient to guarantee the

safety and well-being of our students, faculty, and staff," he noted.

The new program was made possible by a grant from the Asia Foundation and a large contribution from an anonymous donor.

South Vietnam President Nguyen Van Thieu, who has taken a personal interest in the new program, said that he saw the arrangement "to be similar to what you Americans call work-study."

At the invitation of Hoover Institution Director Glenn Campbell, President Thieu will stop at Stanford during his forthcoming trip to the United States to visit President Nixon.

While on campus, he and President Lyman will work out the specific principles of the joint program. Their staffs will negotiate the minor details.

Campbell expressed great approval of President Lyman's announcement. "I am pleased we are sticking to the free world countries to expand our programs. That is where we belong."

"This is clearly a humanitarian project," Lyman concluded.

Burke catches Flack

Remember when folk singer Joan Baez married former ASSU President David Harris? Well, history will repeat itself next month at Stanford when rhythm-and-blues singer Roberta Flack marries outgoing ASSU President Scott Burke.

The service will take place in Memorial Church on Sunday, April 1 at 5 p.m. Professor of Religion Robert McAfee Brown will preside.

The entire Stanford community is invited to help celebrate the happy occasion.

Burke, a senior majoring in philosophy, met Miss Flack at a conference of student leaders in Washington last November.

Computer grant by IBM

The second largest single contribution so far to the Stanford Fund Drive was announced yesterday by Kenneth Cuthbertson, vice-president for development.

Totalling over \$16 million, the gift from IBM Research Foundation will be used to build and equip a new computer science building, the Watson Computer Complex, for teaching, research, and development of experimental digital systems. The facility will also provide space for a number of applied projects in the fields of medicine, chemistry, and engineering.

The IBM grant was one of three given by the IBM Research Foundation to American universities. M.I.T. and Wisconsin each received similar gifts for their computer science departments.

The IBM Research Foundation, a non-profit corporation funded largely by IBM Inc., has sponsored many research projects over the last ten years, but usually in its own facilities in New York.

The gifts to Stanford, MIT, and Wisconsin represent a significant departure from previous practice both in the release of control and in the magnitude of the funds involved.

In accepting the gift for Stanford, Cuthbertson stated, "We have always had close ties with IBM from both a business and personal standpoint. We are very grateful that Tom Watson selected Stanford as one of the three institutions that could put this grant to its most effective use.

"It will greatly expand our capability to train engineers and scientists in this exciting field."

Provost Miller and Professor Gene Franklin, Associate Provost for Computing, expressed similar enthusiasm for the future computer science complex.

"Development of computer resources has been very haphazard over the last ten years, due to the rapidly changing nature of the field. Too often projects in engineering have had no contact with mathematicians, and applications such as medical research were completely unaware of relevant work in other parts of the University.

"The new complex will provide a nucleus for the whole campus. It will serve as an umbrella under which new projects from many diverse fields can interact with computer scientists.

"This should allow computer science to become impacted on the many traditional fields of study at the university. And the feedback to hardware development will be invaluable."

In his letter to Cuthbertson accompanying notification of the gift, Watson stated: "I have had many close friends at Stanford and have served on the board of Pan Am with Jeeb Halaby and Ed Littlefield, so I have long been aware of Stanford's leadership in the field of computer science.

"Our realization that development of sophisticated computer research and training facilities was of major national significance contributed the decisive factor in our decision to give this grant to Stanford.

"It is our hope that Stanford will continue to contribute to our nation's prominence in this field by the unfettered exploration of the potential of experimental concepts in computer science."

According to Professor Franklin, the site for the Watson Complex will be

immediately adjacent to the present campus computer facility.

"Over a period of time we expect to incorporate the campus facility into the Watson Complex.

"Currently, the planning office is working out the specifications of the required physical plant.

"Unlike most campus buildings, the Watson Complex presents some unique design problems. We would like to preserve the greatest possible flexibility. The need for hard communication networks to the other campus computer facilities is apparent and the design will have to reflect this need."

Computer Science Professor John McCarthy, director of the Artificial Intelligence Laboratory, noted that the major immediate effect of the new Watson Complex would be felt in the teaching areas of computer science.

"Teaching of computer science has been more of an adjunct to the research and service responsibilities of the department than a prime goal. The new facility will allow us to design teaching space and hence classroom experience commensurate with the ever increasing demand by students and staff.

"I think we desperately need a first class teaching program if Stanford is to continue its educational role in this field."

Coming at a time when IBM is under considerable pressure from the anti-trust division of the U.S. Attorney General's office, the gift will probably be held up for a number of months until Stanford receives assurance that it does not constitute a conflict of interest. Stanford's attorney, James Siena, felt sure that there would be no real problem but wants to allow time for feedback from the Justice Department before any of the funds are actually committed.

Construction is expected to begin in September or October of this year.

Scott named to Aero and Astro

Montgomery Scott, an internationally known expert on dilithium crystal technology, has been appointed a professor in the Department of Aeronautics and Astronautics.

The appointment, which becomes effective April 1, was announced yesterday by Arthur E. Bryson, chairman of the department.

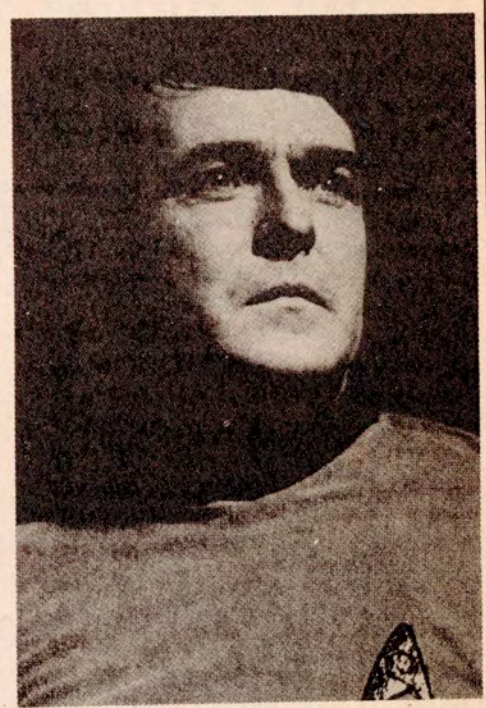
A native of Edinburgh, Scotland, Scott received his Ph.D. from Starfleet Academy in 1963. His doctoral dissertation on "The Purification of Dilithium Crystals by Negative Centrifugation" earned him a position as assistant engineering officer aboard the U.S.S. *Lexington* at the age of 24.

Dilithium crystals are essential to the controlled fusion of matter and antimatter that powers warp engines of the type used aboard the *Lexington*.

In 1966 Scott became chief engineering officer of the starship *Enterprise*, where he supervised the operations of the engineering hull, including the two main warp engines. These engines, 504 feet long and 60 feet in diameter, were the largest of their kind ever built.

During his service aboard the *Enterprise* Scott received the Grankite Order of Tactic for his work in exploring strange new worlds and boldly going where no man had gone before.

When the *Enterprise* was retired in 1969, Scott turned to writing. He is the



Montgomery Scott

author of *Warp Engines in Theory and Practice*, a standard textbook, and numerous technical articles. His popular introduction to the subject, *Getting the Most Out of Your Warp Engine*, has been widely acclaimed.

At Stanford Scott will teach an advanced seminar on warp engine design. Warp engines have attracted attention as a pollution-free source of energy.

Study tests faculty interest

Stanford undergraduates and faculty do not know each other, a research study recently made public reveals.

The report is the result of a research project by Jan Davison, a sociology graduate student working with Prof. Sanford Dornbusch. Further, according to Ms. Davison, students interviewed in her survey do not care to know faculty.

Ms. Davison distributed a 20-item questionnaire to 530 undergraduates in their living groups and obtained responses from about 300. To the question, "During your career at Stanford, how many faculty members have you talked with?" 75 percent indicated "none."

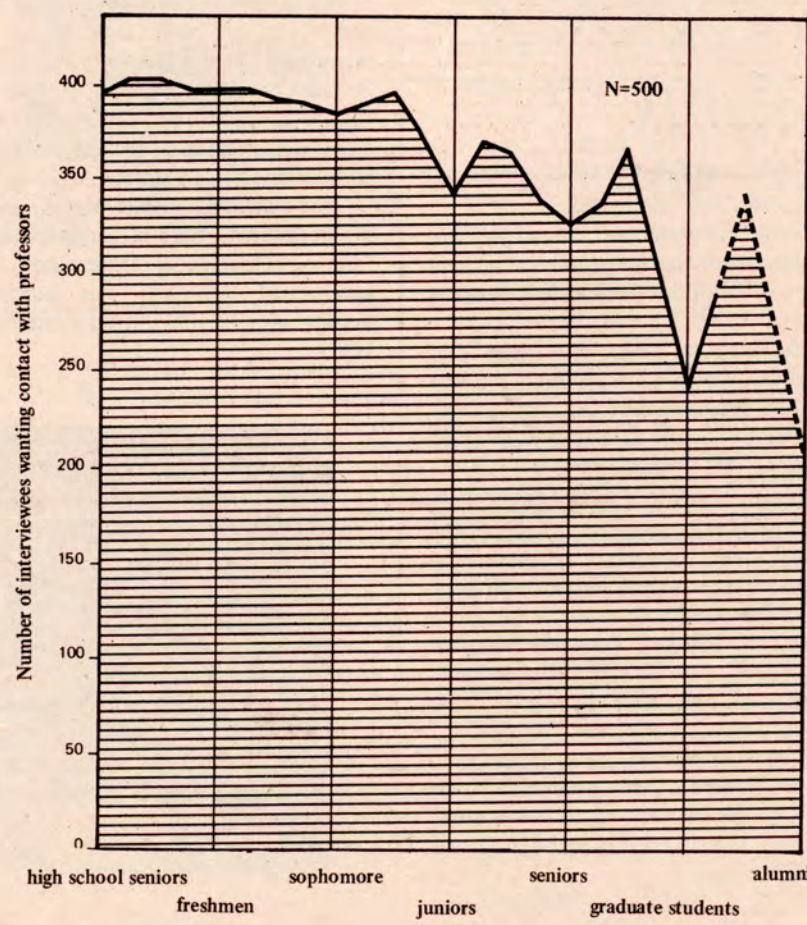
More surprising was the response to the question, "Do you wish faculty members were more approachable?" Sixty-nine percent of those responding indicated that they were indifferent.

Ms. Davison also conducted interviews with students at Tresidder Union, the Undergraduate Library, Stern Hall, and the men's gymnasium. One senior student interviewed stated that when he was a freshman he had approached Prof. Bacon after a lecture and was told to get a haircut. Since that encounter he has not attended lectures and is graduating with honors this quarter. His experience has been that academic achievement at Stanford is left entirely to the motivation of the student, and the faculty "could really care less."

One woman student interviewed said that she had actually invited her political science professor for dinner. He spent the evening soliciting information on the sex lives of undergraduate women, she reported, and upon leaving propositioned her.

Several students interviewed indicated complete disinterest in their professors by such remarks as, "I just came to Stanford to get laid, and these professors all seem to have their heads in the clouds."

In her conclusion, Ms. Davison hypothesized that the lack of student-faculty contact results from student preoccupation with finding themselves, and lack of faculty concern to be "real" people and to make education relevant.



A statistical graph of student-faculty relationships.

Rich announces more support for computers

In a note to all users of the Medical School computing facility, Dean Clayton Rich announced last week the continued support for an IBM system devoted to medical school and hospital needs.

"We will take our proposal for an IBM 370-158 system to the Board of Trustees at their April meeting. In spite of the fact that such a system will never be self-supporting I feel that Stanford's Medical School must have a major computer commitment if it is to remain in its position at the forefront of teaching, research, and medical care.

"I will ask the trustees to approve a special subsidy to support this system," Rich stated.

The need for such a medical computer system was elaborated further by Peter Carpenter, newly appointed assistant to Dr. Rich. "In Washington where I've been working for the last three years, we were very cognizant of the peculiar problems in medical training and research. Institutions with the capability for exploring new developments were always looked on favorably.

"I think that with my contacts in these areas we can probably expect some additional funding for this system."

The use of University general funds for subsidizing computer services has generally been denied by Robert Augsburger, vice-president for business affairs. In this case the medical school proposal was of sufficient magnitude to be separated from the other computer service budgets.

According to Carpenter, this exception was made after extensive evaluation and consideration of all the alternatives:

"The vice-president for medical affairs, Dr. Rich, felt that the medical computing problems constituted a rather different type of need with completely different



Peter Carpenter

Blossom gives music grant for study of *vox castrato*

Stanford's music department will receive a large scholarship grant "for the furtherance of the study of voice," according to department chairman William L. Crosten.

The grant of \$200,000 has been donated by Harry Blossom of Middlesex, New Jersey, an alumnus of Stanford.

The scholarship will be of two year's duration, limited to music majors studying voice who have "shown the ability and willingness to study the ultimate of vocal art, the *vox castrato*." Mr. Blossom has defined the qualifications for the scholarship more explicitly in the official grant, but Dr. Crosten has released the general requirements.

According to Dr. Crosten, "*Vox castrato* is an archaic vocal technique for the male voice. It stresses the purity and sweetness of the unadulterated tenor, and requires great sacrifice to master. I cannot say whether Stanford has any students who fulfill the requirements right now."

Mr. Blossom received a B.A. in English from Stanford in 1943. He served with distinction in the Second World War, receiving the Purple Heart when he received severe wounds in the lower abdomen in the course of heroic action. Shortly after his release from service, he became interested in the art of *vox castrato*, and has studied as a talented amateur.

accounting and funding problems from other computing services. I agree with him, of course. After discussing the requirements with Mr. Augsburger, we all agreed that this was the best course to pursue."

The possibilities for future funding as a research project are still being pursued. Carpenter felt quite optimistic about new sources of research funds.

"When I was at Harvard, I remember a similar project in the humanities and sociology area. It too required a large data base that just couldn't be supported by the normal departmental mechanisms.

"In the long run Harvard organized a multi-source supporting system that included the Department of Defense and the N.S.F. as well as University funds. It was quite successful and achieved national prominence. Now that the campus is in a more normal, relaxed atmosphere politically, I think I might be able to persuade some of the DoD sources, with whom I used to work, that this type of research could justify their support. But first we have to get it off the ground."

Dean Clayton Rich



Undergrads . . .

(continued from page 1)

The Commission did not concern itself solely with financial matters. As Commission chairman Robert R. Augsburger pointed out, "There is the matter of academic prestige to consider. We want to maintain Stanford's position as a leader in education. We had to consider how [the proposal to eliminate undergraduates] might affect our image."

After extensive polling among educators, the Commission concluded that there was no prestige in undergraduate education. "With everyone and his dog going to college, it's just not a big deal anymore. Graduate education is where it's at."

President Lyman has accepted the report with a number of reservations.

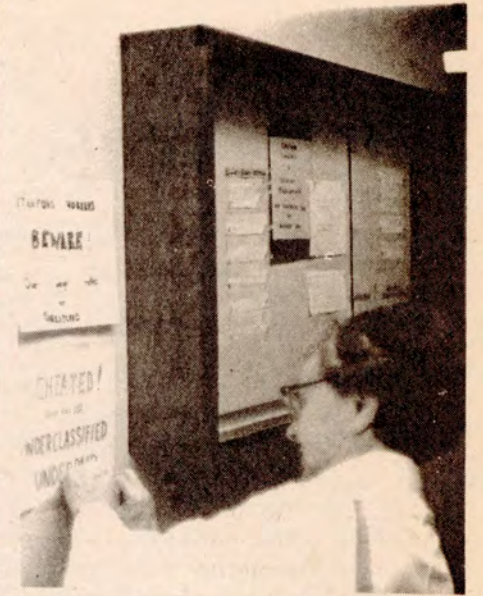
Kissinger settles Franklin dispute

Presidential adviser Henry Kissinger took a weekend off from foreign affairs recently in order to help settle a dispute at Stanford University. In response to a request from former Hoover Institution fellow Richard Allen, the man who recommended Kissinger for his present post with the Nixon administration, Kissinger presided over negotiations in San Francisco involving fired associate professor of English H. Bruce Franklin, President Lyman and other officials of Stanford University, and the Venceremos organization.

Full details of the negotiations have not yet been released, but Kissinger announced that agreement had been reached on the main point: Franklin will rejoin Stanford University as a Senior Fellow at the Hoover Institution.

At a Venceremos victory rally in White Plaza last Thursday, Franklin said that the University had capitulated completely to the just demands of the people.

However, Dr. W. Glen Campbell, director of the Hoover Institution, said that the University's position had been completely vindicated. He said that Franklin would occupy only a minor research position at the Institution.



Mrs. Julia Harvey

Harvey re-hired as coordinator

Dr. Emil Sarpa, Stanford's director of personnel, has announced the hiring last week of Mrs. Julia Harvey as coordinator of re-training programs for campus personnel. In making the announcement Dr. Sarpa stated, "Mrs. Harvey has in the past been one of the most constructive critics of Stanford's personnel practices. Her awareness of the needs in this area gives her the best qualifications I can think of for this position."

Mrs. Harvey, formerly a biomedical research assistant with the Pediatrics Department, expressed mixed emotions about accepting the position.

"I've been working in medical research for over twenty years at Stanford. I'm a little overwhelmed at the prospect of changing into a completely different field."

When asked whether learning the ropes of the personnel department would be a major problem, Mrs. Harvey gave a definitive no.

"In the first place all the people in personnel have always been very helpful to me. We've had differences in perspective, but they are employees too and have similar needs to myself and other members of U.S.E. (United Stanford Employees).

"I'm sure that with their help I can make the transition quickly.

"In the second place I've been learning new things and new ways of doing old things all my life. Just because I'm no longer under thirty doesn't mean I'm stuck in a rut. I've got some rather innovative ideas for retraining personnel, but I want to talk to other members of the department before discussing anything specific."

Pat Devaney, a personnel representative, was enthusiastic about Julia's appointment.

"We see people every day with job skills that are out of phase with today's needs. And these are bright people, nice people with experience that could be very useful to the University.

"But there isn't much we can do at present. Julia would be a tremendous asset to our group. And she already knows almost every employee on campus."

Mrs. Harvey will work closely with Ian Jacobsen, director of the training and special projects group currently located in the Old Pavilion. Employees with problems or suggestions for retraining should contact Mrs. Harvey there after April 1.

SRI analysts tutor Stanford executives

Robert T. Augsburger, vice-president for business and financial affairs, announced on Monday, March 12 that Stanford has entered into a contractual agreement with the Decision Analysis Group (DAG) at Stanford Research Institute (SRI) in which members of the group's professional staff will provide a series of educational seminars to top-level administrators at the University.

The seminar program, which will begin on March 21 and extend over a period of two months, will be aimed at instructing key Stanford personnel in the techniques of decision analysis, a new management science discipline that has enjoyed remarkable success in both the business and governmental sectors.

Mr. Augsburger indicated that the seminar program would be geared to the complex financial and organizational

problems that have become all too prevalent within the upper echelons of management at Stanford. He indicated that all department heads, deans of the various graduate schools, and other administrative officers would be encouraged to participate in the educational series.

Augsburger remarked "It seems especially necessary at this point in time, for the University's management to acknowledge Stanford as being basically a profit and loss business operation, that happens to have education as its primary, but not exclusive product.

"Since we are operating a business, then we should, obviously, use the most up-to-date management techniques in pursuing our goals. It is my opinion that decision analysis, as practiced and taught by SRI is one of the most innovative and successful management tools today."

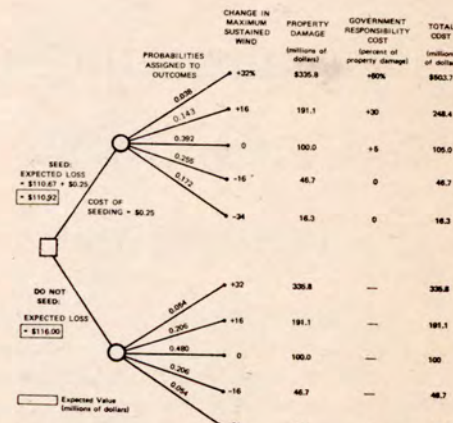
Dr. Michael M. Menke, self-appointed spokesman for the decision analysis group commented, "I'm really pleased and encouraged by Stanford's steps in this direction. As a former Stanford graduate student, I can readily appreciate how decision analysis will help the decision making process at the University. I know administrators at all levels who could have avoided costly managerial mistakes, if they had only used the decision analysis approach."

Menke's opinions were seconded by Dr. James E. Matheson, director of the decision analysis group. Dr. Matheson went on to say, "...In addition to instructing the Stanford administration in an area that merits its immediate attention, it will also give Stanford and SRI personnel an opportunity to re-establish many subtle lines of communication that were relinquished during the student unrest of the late sixties.

"I expect that the two month educational program will lay the foundation for a continuing liaison between SRI and the University. I'm really looking forward to the whole experience."

The relative impact of the SRI program has been underscored by the announcement that President Richard Lyman, Mr. Augsburger, and several high ranking aides on the president's staff will be attending the first educational seminar on March 21. It's hoped that this initial commitment on President Lyman's part will encourage others within the university to participate in the sweeping "decision analysis movement."

A modified example of the decision analysis methodology as applied to the field of weather modification, specifically for Palo Alto, has been presented below.



A decision analyst's "tree" makes intelligible the effects of cloud seeding upon Palo Alto.

Appointed...

(continued from page 1)

"The registrar's office has always had a lot of sensitive information. But public concern has increased dramatically, and nobody is really sure how safe computer files are. We want maximum accessibility to all files for responsible administrators, and minimum access for unauthorized personnel.

When asked how long he expected to stay at his new post, Houghton suggested with a dry chuckle, "Ask me again ten years from now. By then I should know the job, its peculiar pitfalls and I hope some of its satisfactions. I'm very pleased to have been chosen to be Registrar, but right now I feel like I've been tossed into the middle of the Mississippi River in a little canoe without a paddle."

Rate Increases

A report on the University budget planning issued Thursday by the Provost's office contained an error (transposition) on page 2. The figure for base inflation rate was reported as 4% and the figure for annual staff salary increases was given as 6% on the average. These figures should read as 6% inflation rate and 4% staff salary increases.

Housing

HOUSING FOR RENT - Old campus: 42 rm. apt, 2 BR, 21 ba., architecture, art. furn, sm. garden, 3 children, sauna. Adults only, children under 18 admitted with parents. Avail. Mar. 22-25, 1976. \$75/hr. Call 324-0964 after 3 p.m.

*House close to campus. Pure white Apollonian architecture. Young, responsible patriotic couple sought. Foreign cars need not apply. 6 BR, 2 ba., \$210/mo. Prof. Bacon, 323-4507.

*Rooms to sublet or share. Cozy, communal warm non-violent living for faculty or staff to share with searching students. Micro-organic dieters only, please. Call Armand 328-9555.

HOUSE FOR SALE - A big white house on a hill. Heather extra. Stucco. 623 Mirada. \$100,000 firm. Owned by high-ranking responsible administrator. 326-2403.

PERSONAL: Young, well-hung associate provost looking for companion to share intellectual thoughts and the pleasures of living.

*Will trade house for massage parlor. Bicycling distance from campus. 3628 El Camino, 493-0682.

LAND FOR LEASE - Large tract of land used for recreational purposes near Sand Hill Road. Ripe for highrise development. Since tract has sand traps and 18 holes, will lease at \$1 per acre per year.

*94 acres of land on hill ripe for industrial development off Page Mill Road. Contact our agent, Boise Cascade.

OPEN FOR OCCUPANCY IN 1976: Floor space for enterprising store keepers. Expanded regional shopping center off El Camino. New cross-Peninsula expressway to be re-introduced to provide better access. Bill Stone, President's office.

HOUSING NEEDED: Well known evangelist with large family looking for house on Frenchmans Terrace. For references call the White House.

FOR RENT: Undergraduates. One room in attic. No water or kitchen privileges. \$275/month. No children, no pets, no honkies. Prof. X, x2098.

Calendar

TUESDAY, MARCH 20

Chemical Engineering Colloquium: "The Temperature Variations in Caffeine Percolation Parameters with Practical Applications," with Dr. J.D. Benchwell of the National Bureau of Standards. 2:05 p.m., Chem. Engr. Conference Bldg.

Information Processes Seminar: "Least Square Operator Solutions to the Honesty Problem in a Gambling Environment," with visiting Prof. Benny G. Cohn of N.Y. Univ. 8:00 p.m. Durand 100.

Biomathematics Seminar: "Convolution and Contour Integration on Smooth, Curved Surfaces" with Hilda and Eberhard Farber of the Swedish Inst. for Biomedical Research. 10:00 p.m. Place to be arranged.

Physics Colloquium: "Neutron Densities and the Satisfaction of Conservative Boundary Conditions with Emphasis on Topics in Cosmology," with Prof. Emeritus T.G. Wojciechzi of the Polish National Observatory. Sometime between 7:00 and 11:00 p.m., in McCullough 135.

WEDNESDAY, MARCH 21

Earth Sciences 1973 Ca-hoots Lecture Series: "The effect of maleic hydrazide 2, 4:d, coconut milk and gunpowder on germination, internode length, flowering, root production, and titanium uptake in the Biloxi soybean" with Dr. Gerald Spitz, fourth of three, 6 p.m., Geology corner, Room 320.

Committee for Modern Art Winter Quarter Monday Tuesday Thursday Evening Lecture Series: "The use of inorganic oil-based pastels in the art of Salvador Dali, and why not?" with Dr. Payne T. Inge, one of one held on alternate years, Alan Cummings Art Building, 3 p.m.

Plants and Humans Services film: "Advice on Pruning" with Constance P. Attid, Bishop Aud. Admission \$1, 5 a.m.

Stanford YPCA Saturday Pastrami on Rye Series: "The Art of Art" with Jauniti S. Omcache, Clubhouse basement, at noon, all welcome.

Ph.D. Oral Examinations: *Connie L. Inguess*, Linguistics, 2:15, Room 111 Polya Hall.

THURSDAY, MARCH 22

Communications Community Feedback Series: "Syncretism and Kinaesthetics Mixed with Polymorphous Eroticism in the Paleocybernetic Age" with R. Buckminster Fullerbrushman, 2100 hrs., Redwood Hall hall.

Medical Microbiology Lectures in VTS: "An anerobic heat resistant monoflagellate ornithine producing sulfur non-purple bacterium isolated from the rectum of a goat" with Cires Shadrach, 1:15 Annenberg Aud., Alan Cummings Art Bldg.

Public Events Dance: St. Vitus Dance Troupe, 11 p.m. Flo Mo, Room 167.

Hoover Institution Film Series: "Myra Breckenridge" 7 and 9 p.m. Bishop Aud.

Get Some Culture Lecture Series: "Ethics in a Multiethnic Society" with Ann Theo Poligei, 8 p.m. Geology Corner, Room 358.

Stanford Cultured Series: "Ethics in a Multiethnic Society" with Poligy A. Throe, 8:30 p.m. Geology Corner, Room 359.

Culture at Stanford Series: "Ethics in a Multiethnic Society" with Theo P. Aynee, 9 p.m., Geology Corner, Room 360.

FRIDAY, MARCH 23

Intellectuals for Jesus Conversion Series: First in a series of continuing meetings in a continuing series. Three physicists, one psychologist and a partridge in a pear tree will plead and pray to the eternal provost, our saviour Jesus. Time and place to be ordained soon. Call either the Chapel or Medical Center Psychiatric Clinic for further details.

Music Department Concert in conjunction with the Human Bio department: hosting a festival of baroque music and culture, featuring Margarutin Fabuloso performing works from the Well Tempered Clitoris, parts one, two and seven on reproduced original instruments. 7:30 in the location of your choice.

VISITORS FROM OTHER COUNTRIES

March 19: Abdul Yosef Arafat, from the United Arab Republic, studying Israeli migration patterns of the past 3000 years.

March 20: Muhammed Okifor, Nigeria, studying the indigenous American black, at Stanford University.

For further information call the Office for Aliens and Sedition, ext. 2253.

EXHIBITS

The Dumiel exhibit of famous and flattering figures in wax of Richard Milhouse Nixon, on display in the Stanford Museum utility closet for four more years.

The Dedwood Muylfudge Collection of Stanford scenes, 1972 to 1890. See rare photographs of Mrs. Stanford in the kitchen, Leland Sr. talking to the help, the help talking back, the help being let go, etc.