

the Toreador

Dwyer New IE Head As St. Clair Resigns

By PAT EDWARDS
Toreador Staff Writer

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Green Resigns; To Work For GM

Dr. Parker M. Green, associate professor of industrial engineering, has resigned his position at Tech to join the staff of the General Motors Institute of Technology at Flint, Mich.

He will supervise the work of senior students working on these theses. The new position will also offer him opportunity to do consulting work with various divisions of the corporation.

Green has been at Tech since 1949 and will join the Institute staff Sept. 1.

Professors To Hear Education Issues Discussed At Meet

Kinds and levels of teaching certificates and the distinguishing differences of each is one of the issues being discussed at the Teacher Education conference at Southern Methodist university in Dallas this week.

Members of the Tech faculty attending the meetings are Dr. P. Merville Larson, head of the speech department; Dr. Robert C. Goodwin, dean of arts and sciences; Dr. John S. Carroll, education department head; Dr. Emmett A. Hazlewood, mathematics department head; according to Dr. E. N. Jones, vice president.

Jones will attend the meetings today and tomorrow.

Leading educators and members of educational organizations will be divided into groups. Specific assignment to groups will be made in order that a cross section of educators will serve on the various committees.

Other issues being discussed are the overall hour and experience requirements for each teaching certificate; the number and type of endorsement for certificates and composition of the core of general education.

Tech delegates are expected to return to Lubbock Sunday.



Oscar A. St. Clair

Decker Chosen Dorm Supervisor

Robert James (Jim) Decker has arrived at Tech to take over as Mens Dormitory Supervisor.

Decker, who is 28, was born in British West Africa and spent nine years of his life there, came to Tech from Indiana University where he has almost completed work on his doctorate degree in history. His minor is Counseling and Guidance.

He was a member of the counseling staff at IU for the past four years and for the past two years he has been assistant to the headmaster of men's residence halls there.

Decker returned to this country from Africa two weeks before Pearl harbor to enter Marion college at Marion, Indiana and finished his sophomore year before entering pilot training in the Air Corps. Upon completion of training he joined the Third Air Force training command and spent the rest of his tour as a pilot instructor.

When asked how he liked Texas, Decker said, "I am a confirmed Texan. I spent seven weeks in Texas during the war." He did say that he thought that the climate was wonderful and that he was favorably impressed with Lubbock and the surrounding territory that he has seen in the short time he has been here. The heat, even though the temperature is much

See DECKER, Page 3

TRYOUTS BEGIN MONDAY

Try-outs for two one-act plays to be presented this six weeks will be held in the Speech building auditorium Monday and Tuesday at 4 p.m. and 7 p.m., announced Dr. P. Merville Larson, head of the Speech department. All Tech students are eligible to try out.

Directors for the two plays are Pat Edwards, junior speech major from Fort Worth; Joyce Rendell, freshman from Lubbock; Jean Padgett, senior speech major from Graham.

Miss Edwards will direct the first act of "Light Up the Sky" by Moss Hart. The other play has not been definitely decided upon. The plays will be presented about the middle of August.

Torres Takes Parks Award

Beatrice Torres, 19, honor student from Levelland has been awarded the Hiram Parks scholarship for 1951-52, the committee on scholarships and awards at Tech announced today.

As a Parks scholar, Miss Torres will receive \$500 each year for four consecutive years while attending Tech, provided she continues to meet the requirements of the award.

The other Parks scholars, selected in previous years, will continue in residence at Tech next year. They are arts and sciences student Marie Olivo of Amarillo, senior; Juanita Casas, Levelland, junior; Pete Aboytas, Amarillo, sophomore.

A student is chosen on the basis of need for assistance, scholastic record, and promise of leadership each year from the high school graduates of the Panhandle and Plains area.

Mr. and Mrs. Parks, Lubbock residents, established the scholarships in 1945 to encourage students of Mexican descent to complete their high school and college education through financial assistance.



Joseph S. Dwyer

Elle Appointed New Horticulture Department Prof

George O. Elle has been appointed professor of horticulture at Tech, Dr. E. N. Jones, vice president, has announced.

Elle will return to the faculty after a three-year leave of absence granted in 1948 to work on his doctorate degree which he will receive from Cornell university this summer. His major subject is vegetable crops.

A 1938 graduate of Oregon State college, Elle received his master of science degree from Tech in 1941. He was instructor in horticulture at Tech 1940-42 and 1946-48. He was employed for a short time as fruit and vegetable inspector for the United States Department of Agriculture.

Entering as a private in 1942 in the Anti Aircraft Artillery of the Army, Elle was discharged in 1946 as a captain.

Prof. Joseph S. Dwyer of the Georgia Institute of Technology, Atlanta, Ga., has accepted the position as head of the department of industrial engineering and engineering drawing here, effective at beginning of the fall semester. He is replacing Prof. O. A. St. Clair, who relinquished his duties as department head at the end of the spring semester in accordance with the retirement policy of the college.

Prof. St. Clair, who joined the faculty of Texas Tech as head of the department in 1934, will remain on modified service with the department. He was primarily responsible for the development of the curriculum in industrial engineering and engineering drawing here. He served as acting dean of engineering from September, 1949 until August, 1950.

MS From Georgia

A married man, Prof. Dwyer is the father of three daughters. He was graduated from Oklahoma A&M in 1941, with a bachelor of science degree in industrial engineering, and he was granted a MS degree from the Georgia Institute of Technology in 1949.

Prof. Dwyer worked for five years as an industrial engineer for Westinghouse Electric Corporation in Baltimore, Md., before joining the faculty at the Georgia Institute, where he rose from the rank of instructor to associate professor in three years.

He is the author of several motion pictures concerned with industrial processes and operations from the viewpoint of the industrial engineer. During the summer of 1950 he was employed for special work with the Combustion Engineering-Super Heater corporation in Chattanooga, Tenn., as an industrial engineer. He is a registered professional engineer in Georgia.

Former Techsan Receives Ph.D.

John Bradford, graduate of 1942, is one of the latest additions to the ranks of Tech alumni whose names are followed by "Ph.D."

Bradford is visiting in Lubbock before assuming duties as the director of the Radio-Isotopes laboratory at Case Institute of Technology in Cleveland, Ohio.

Teaches Physics

Receiving his BS degree in chemical engineering from Tech in 1942, Bradford spent the next two years with the technical service group in the research laboratories of the Standard Oil company of Indiana. In 1944 he returned to Tech to teach physics in the Air corps pre-flight program.

A navy veteran, Bradford served as Radar officer aboard a destroyer-escort in the Atlantic for a year.

Upon discharge from the Navy, Bradford returned to Tech and taught physics in 1946, 47 and 48 while completing work on his MS degree.

In 1948 he began work on his Ph.D. at Case and completed the requirements last spring.

Studies Neutrons

Bradford said that the work of the laboratory at Case was in the peace-time and industrial uses of atomic energy and that progress was being made constantly. As all atomic energy developments are secret information and are not printed for use outside such places as Oak Ridge, Argonne and Hansford, in order to find out the latest developments, it is necessary that he visit these projects and talk with the scientists who bring about these new developments.

After reporting to Case, Bradford will go to Oak Ridge for three weeks of nuclear engineering work in the labs there.

Louis J. Powers, assistant professor of mechanical engineering, has recently returned from a visit with his son who resides in California.

All-State Center To Join Raiders

Don Kaye Brown, all-state class A center for Kermit last season, will be enrolled in Tech this fall, Coach DeWitt Weaver said.

The 192-pounder, who played defensive and captained the class-A finalists and will be a Northern participant in the Texas Coaching school all-star game to be played August 3 in San Antonio.

Rick Spinks, Brown's Kermit teammate, and Mac Taylor of Lubbock, halfbacks, will also be in the Northern all-star lineup at the game. The two are future Techs.

Brown, whose major will be education, was a four-year letterman at Kermit, president of the Kermit band for two years and vice president of the Student council on one term.

Heather Given Job As ECP Director

Dr. George G. Heather, dean of business administration, has been named Director of the Evening Course program at Tech this fall, Dr. D. M. Wiggins, college president, said today.

The Evening Course program was initiated during the fall of 1950 as a special service for persons in business and industry in Lubbock and surrounding areas who could not attend regular daytime classes.

Offered primarily in the business field, the course includes special Saturday classes for teachers or others who could not continue their education during the week because of conflicting duties.

Heather will serve as program director in addition to his present duties.

Tech Instructor Recalled To Duty

Vernon Wade, instructor in the electrical engineering department, has been recalled to active duty in the Air Force. He is enrolled in the Academic Instructors school, Maxwell Air Force Base, Montgomery, Alabama. Upon completion of the course Wade will return to Tech where he will be assigned as Assistant PAS&T of the AF ROTC.

Wade has been very active in the Air Explorer Scout unit sponsored by the Tech chapter of the Arnold Air society.

Unknown But So Necessary-- The Campus Custodian Story

What group of persons are perhaps the most unknown, unnoticed and yet one of the most necessary groups on the campus?

Guesses ranging from professors to the college cows or pigeons, are wrong—the necessary behind-the-scenes workers are the 41 men and women employed by Tech's custodial department.

The department, headed by Charles F. Libby, supervising custodian of buildings, employs an office clerk, seven foremen, three "trouble shooters" and 30 building custodians.

If these housecleaning ladies and gentlemen were suddenly to decide to take a vacation, only one day would go by before student complaints would be voiced, Libby estimates.

The major portion of work falls on the building custodians responsible for keeping halls, classrooms and washrooms of campus buildings clean—an area of one-half million square feet.

A Constant Job

The housecleaning is also a constant job. While students are blithely listening to the latest theories of world peace or the origin of the English language, the custodians are sweeping, waxing, dusting and washing windows in a constant battle against "ole man Lubbock sandstorm."

Building custodians are aided in

major tasks such as waxing and refinishing floors by the roving team of "trouble shooters." Floors are waxed as needed and every one or two years they are power scrubbed, disinfected and sealed with a penetrating cement floor seal.

This latter protection not only keeps floors from wearing down, but cuts the amount of dust in a room. An experiment conducted on unsealed floors proved that after five minutes of foot traffic, a completely clean classroom would need cleaning again because of worn off cement dust. Sixty-five per cent of campus flooring is now protected by this seal, Libby said.

An \$18,000 Stock

An \$18,000 stock of equipment used in campus-wide clean-up and maintenance is located in the custodial department storeroom located behind XI. The 242 different articles included there include such small items as bolts and mousetraps and larger items such as floor waxers.

Figures on the amount of equipment used each year are now being compiled by the department. To illustrate, the campus used 1,168,500 paper towels last year.

With the opening of new buildings to student use, 310,000 feet of floor space will be added to the work of the department, an increase of 64 per cent in area.

Say now, have you cleaned your dormitory room lately?

ARTIST COURSE TONIGHT

The second Artist Course program of the last summer semester, "Daniels and Gregory," will be presented tonight at 8 p.m. in the Rec hall.

Daniels, ballet-tap dancing star of the New York production of "Kiss Me Kate" and Gregory, Pittsburg Symphony concertina soloist, team up to give a variety of entertainment.

Get Acquainted With Tech! . . .

Do you know on which side President Wiggins parts his hair? The number of steps leading up to the Museum door? Which words are inscribed on the front of the Ad building? What color Dean Allen's eyes are?

Probably not. And no one really expects you to.

But . . . do you know where the Speech building is? Who Tech's new coaches are? What the school song is? What new building is going up between the Library and Chemistry buildings?

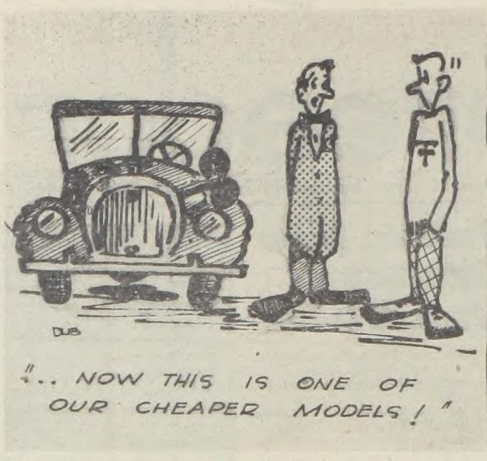
"So what if I don't? What's it to me?" you say.

Whether you know it or not—you, the regular student—are hosts at Tech. And when you leave the school you become its ambassadors.

This summer you are hosts to students from other colleges, high school band students (prospective Techsians), teachers, housewives and all the others who visit Tech during the summer as temporary students. When they return to their homes, they can certainly influence a lot of hometown people so far as Tech is concerned.

It is you who give them the impression of Tech they will take home to their friends, their students, their sons and their daughters . . . all potential Techsians.

Why not wake up to what is going on around you? Know your school so you can give a convincingly favorable impression of Tech when a visitor asks you a question. If you are observant and interested in your school, your attitude will inspire others to be interested also.



About The Campuses

Recently about eighteen A&M geology students decided to change the rocks forming Sul Ross College's "SR" on the side of College Hill. They arranged a perfect "A-M" to replace the "SR." A group of Sul Ross boys heard the noise and with the help of the sheriff caught the geologists a little after midnight . . . The Aggies got free lodging the rest of the night!

One writer at the Georgia Institute of Technology gave these words of explanation pertaining to the Freshman Code and the age-old "rat cap":

"The rules are not intended to punish or degrade a person because he happens to be in his first year of college, but rather to remind him that he has an obligation as well as a duty to perform in upholding improving and carrying on the reputation and tradition that Techmen before him have made."

Recently the girls at the Phi Mu house at the University of Alabama received a call from the water company requesting them to let the water flow vigorously for fifteen minutes from every water faucet in the house "to get the impurities out." After following

these instructions carefully, the girls called back to report that the task was completed. Much to their surprise, they found that the water company had not called at all. Whether it was someone seeking revenge or just another prankster is the current question of interest at the Phi Mu house now.

Program Revealed For Artist Course

Instrumentalists and songsters will divide evenly programs in the 1951-52 Tech Artist Course series, Dr. Gene Hemmle, music department head and chairman of the Concert committee, said.

The six artists included in the "outstanding lineup of talent" are Jennie Turell, mezzo-soprano; Helen Traubel, soprano; Giuseppe di Stefano, tenor; Rudolph Firkusny, pianist; Jascha Heifetz, violinist; Claudio Arrau, pianist.

Performances will be held at 8 p.m. in the Lubbock High School auditorium.

Bates of the program are Miss Turell, Oct. 26; Miss Traubel, Nov. 5; Firkusny, Jan. 8; Heifetz, March 17; Arrau, April 1; di Stefano, April 30.

Tickets for Tech students will be included in the activity card, purchased at the beginning of each semester. Public sale of tickets will start in mid-September and be priced at \$7.50 for the season. Single concert tickets will not be sold unless they are available at the auditorium doors.

Civil Service Exams Available

Civil service examinations have been announced for electronic specialists, according to a bulletin received yesterday from the US Civil Service commission.

Positions with the Signal Corps are available to applicants having studied physical sciences or engineering above high school level, or having three and a half years' experience in these fields. No written test is required.

Salaries range from \$3,825-\$4,200, the bulletin continued. Information and application forms may be obtained at the Civil Service regional office, and sent to the Executive Secretary, Board of U.S. Civil Service Examiners, Signal Corps, 2800 South 20th street in Philadelphia.

Techsians Leave For Boot Camp

Six Texas Tech students will leave for summer boot camp at the Great Lakes Naval Training Center tomorrow with twenty other future sailors.

While at Great Lakes, they will undergo extensive training in the ways of the Navy. They will live and work with regular Navy men for fourteen days.

John Allen, Andrew Smalley, Jimmy Hill, Johnny Winston, James Lester, and Hubert Gentry, Jr. will leave Lubbock in a special car from the Santa Fe Depot, 2:30 p.m. tomorrow.

The group will return Aug. 13.

Tech Orchestra Slated For Fall

The addition of a Tech orchestra to the music department's curricula next fall was announced yesterday by Dr. Gene Hemmle, head of the music department.

Students wishing to play in the Tech orchestra may register during regular registration at the beginning of the fall term, Dr. Hemmle continued.

Joe Haddon, assistant professor of music, will conduct the orchestra, and students will be given one credit hour per semester.

Students are requested to bring their own instruments, as only a few string instruments are available in the department.

Bartlett's Unfamiliar Quotations

By BERN A BARTLETT

"Just one big party" seems to be the Hollywood version of a typical college life . . . and producers continually nourish this viewpoint with a stream of movies which unvaryingly push knowledge into the background and horseplay into the limelight.

Tech Commended

"The what-is-this younger-generation-coming-to attitude of a large part of the public is given plenty of fuel by recent headlines—and Tech can take a superior back seat. If the antics recently recounted by certain newspapers are to be credited then Tech is one of the few remaining schools where students are still students—not backward, harebrained juveniles attending college only to gain a fraternity-sponsor for their Katz-jammer capers.

"Thirty-four Students Jailed" was one screaming banner when a group of students from a northern university staged a campus-wide water fight. Not content with merely exchanging soakings, the supposedly mature students slashed trees with their pocket knives, threw sand and dirt into gas tanks, damaged a police patrol radio and heaved buckets of water at the police.

Police Take A Hand

Several patrol wagons were required to cart the students away—and later in the evening the affair began to look like a pep rally. Attempting to stop police progress in the arrests, other students shout-

ed "Hold that line" and "Go!"

Twice the school song was sung. Quite an entry for the school records.

Women's Dorms Raided

Another chummy little custom prevalent at a midwestern college which should make Techsians feel completely smug in their superiority is that of a yearly raid on women's dormitories by campus fraternities. Newspapers over the state had a field day as students swept through the dorms, tossing women students into showers, damaging property, and even actually harming some of the victims. Complaints from the women themselves merely brought on repeated raids, but finally police took a hand and six raiders were arrested while ten were suspended for the rest of the year by the administration.

Women Fed Up

Howls from the students (all men, by the way—the women were a trifle fed up with the whole thing) are still being heard. Tech may have its frequent wild oats, but to date it has retained a dignity which is conspicuously lacking among some schools—many of them larger and better known.

Advice given freshmen in 1943, by the Toreador:

Don't study when you're happy; Don't study when you're blue; Don't study when you're tired; Or have something else to do. Don't study in the day time; Don't study at night; But study at all other times With all your main and might.

the toreador

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more endurable...
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alsch POTP
First Son... something awful I need ten thousand dollars she'll sue me." Father: "It's not anything to be honored." Second Son: "His trouble last year was that he was a million dollars richer." Father: "It's a world, but I get better than dirt family name." (check) Daughter: "I'm dreadful last night." Father: "Ab... Did you hear that? Who models side—sort of a noble world!" alsch college sports Broadway



RIGHT, TECH STUDENTS CHARLES E. ORREN AND JOHN C. PINSON code and decipher messages as part of their field training. Onlookers are Maj. P. Dougherty, assigned at Penn State College, and Pvt. Ralph Peterson of Brigham City, Utah.



At the conclusion of the encampment tomorrow, all the Tech students will have specialized in communication equipments under technical and tactical conditions, as well as sampling K. P. and guard duty, bivouac and field problems, plus firing on the range.

At a recent ball game at the Intramural Field at the University of Texas, a runner sliding into second base on a close play told the ump, "Call it." "You must have forgotten your Arrid—you aren't even half safe."

SIGNAL CORPS TRAINING IN THE ARMY is a quick changeover from college campus for thirty-four Tech students on six-weeks duty with the Reserve Officer Training corps at Fort Monmouth.

ROTC cadet Zane Tomlinson, left, is following the Signal Corps slogan of "Get the Message Through" as he operates the switchboard, aided by fellow student Joe B. Crank of Whitharral.

ROTC's Considered For DMS Awards

According to W/O L. J. Roper, recently returned to the Signal Corps ROTC unit at Tech from the Signal Corps summer camp at Fort Monmouth, New Jersey, said "The signal students from Tech are showing outstanding qualifications of leadership and are setting a fine example for approximately 1,200 cadets from 47 colleges across the nation who are attending Signal Corps summer camp at Ft. Monmouth."

Roper said that of the 33 students attending from Tech 11 are being considered for Distinguished Military Student awards. He said that this is an unusually high percentage and what is even more unusual is that two sophomore students, J. B. Crank and C. I. Powell, are among the 11 men. The nine others, all junior students, are: Glen E. Powell, Bill D. Bozek, Coffee R. Conner, G. E. Ferguson, D. B. Flemming, B. C. Powell, Emmet C. Adair, John C. Pinson and S. M. Rodgers.

Holcomb Attends Research Meet

Dean Dysart E. Holcomb, head of the engineering department, will speak today on "Textiles Research at Texas Tech" at Texas A&M, announced Miss Georgina Conner, secretary to the dean.

Dr. Holcomb is at College Station attending a three day cotton research congress, accompanied by Dr. Lyle E. Hessler, research associate, and Billy K. Power, fabric technologist, Miss Conner added.

Some of the products manufactured in the textile department here are being presented in three exhibits at the congress, including fancy fabrics, cottons, compared to rayon and other substitutes and types of cotton used in fabric lines.

Tech is one of three schools participating in the Congress at Texas A&M College Station, Texas University joining A&M and Tech in providing a meeting between researchers and men in industry.

The research program was awarded the three schools for the purpose of using trained personnel and school facilities to the fullest extent for cotton research.

Aggie Profs Attend Board Meet At College Station

Dr. T. L. Leach, agriculture education instructor, and Dr. J. J. Willingham, head of the dairy manufacturing department, will return today from a semi-annual board meeting at Texas A&M of the Texas Agricultural Workers' association, announced the agriculture department today.

The faculty members left Wednesday for College Station.

Tech Graduate Assigned To Reese Medical Group

Second Lieutenant Ronald Lee Rushing, Tech graduate in business administration, was recently ordered into active military service with the Air Force and assigned to the 3500 Medical Group at Reese Air Force base.

Rushing received his commission from the Tech Air ROTC in the May graduating class.

Decker —

higher than in Indiana, is much more endurable and Decker said that he, as well as his wife and 13-months-old daughter, were really enjoying the cool nights.

Decker graduated cum laude from Marion college in 1947 where

he was president of the Amphycion Literary society, president of the International Relations club, president of the French club, vice president of the sophomore class, president of the senior class, member of the student council and was listed in Whos Who in American Colleges and Universities.

Coeds from Kalamazoo College caused quite a sensation when they were seen dancing on the porches of the school dormitories in the wee hours of the morning, clad only in their nighties. No one seems to know the reasons for their unusual behavior.

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Father: "It's a lot of money, but anything to save the family honor." (writes out a check.)
Second Son: "Father I got into trouble last night and I need ten thousand dollars or she'll sue me."
Father: "It's all I've got in the world, but I guess anything is better than dragging down the family name." (writes out a check.)
Daughter: "I did something dreadful last night—"
Father: "Ah, now we collect."
Did you hear about the show-girl who models lingerie on the side—sort of a model for the unde world!

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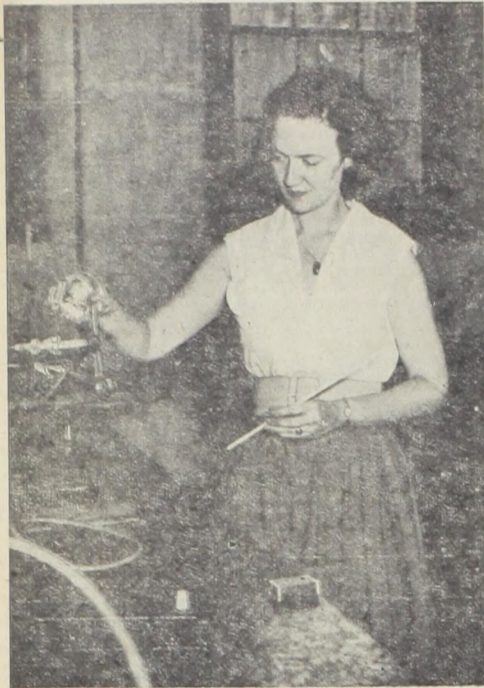
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MISS PATRICIA FAIN, 23 year old laboratory instructor in organic chemistry is shown above conducting an experiment in chemistry lab. Miss Fain is the first person to apply for a doctorate in chemistry from this college.

H₂O + Soap + Dog = Clean Pup

Patricia Fain To Receive Master's In August; First To Apply For Doctorate In Chemistry

By MRS. DICK COZBY

A few weeks hence, Patricia Fain, 23-year-old Techsian, will receive her master of science degree in bio-chemistry. Come September 1 she will pursue the chemical equation to New York City where she will attend the Diamond Jubilee meeting of the American Chemical society. Then back home on the Tech campus for the fall semester, Pat will continue her study as she becomes the first person to apply for a doctorate in chemistry from this college.

For one who occasionally says modestly, "I just can't do that," Pat's accomplishments over the last seven years are remarkable, if not almost unique. She is possibly the only coed in this region who has accumulated three degrees and 19 months of professional experience before her twenty-fourth birthday.

Not one to be wasting any time, Pat set her pace when she entered the University of Texas after graduating from Lubbock Senior High school in 1944. She earned a BA degree in English from the University of Texas in 1947.

In the summer of 1948, she had another degree to her credit—a BA in chemistry from Tech. September, '48 to April, '50, found her doing analytical work and technical service in a major chemical plant in St. Louis. Now, as the final copy of her thesis is being typed, Pat has her hand extended

for a third degree.

Why did she choose a career in the field of chemistry? Frankly, she doesn't know. She says, "I have just always enjoyed it. I like laboratory work, and have known since I was in the eighth grade that this was what I wanted."

All of her masters work was completed before the beginning of the second term of summer school. This session she audits a chemistry lecture course in the mornings and is a laboratory instructor for organic chemistry in the afternoons from 1-5:30 p.m. Then, to round out the day, she reads literature in various fields to find a project for her doctorate.

Chasing "bugs" from one test tube to another fourteen hours a day, six days a week for nine months, as Pat did during the 1950-51 term, could take a little of the zest for living out of nearly anyone—but not Pat.

Hesitant to talk about her accomplishments and refusing to see anything unusual about them, she admits a 2.0 average in undergraduate work, and 2.5 and 2.77 averages for the two semesters in graduate work. However, Pat points out the significant correlation between decrease in extracurricular activities and increase in grade point averages. Having curtailed her social and club activities as she advances in her field, she knows whereof she speaks.

"The most serious obstacles I've ever had to overcome were extracurricular activities," she laughing-

ly reports.

When Pat needs a little diversion, she goes home, dons blue jeans and, does a chemical experiment in her own backyard. By combining H₂O and SOAP and applying the solution to DOG she secures a clean PUP—and a happy, relaxed Pat.

"I like to swim when I can find time, and I've been taking lessons for the last hundred years, the versatile Lubbockite says. She is also a student of Spanish French and German.

In recognition of her achievements, Pat has been granted teaching fellowship in chemistry. She expects work on her doctorate to require about two years of completion.

What then?

"I want to work in the field of research, preferably in Texas," was the answer.

"But Pat, you can't be in Texas and still be as far from home as you were in St. Louis," the reporter suggested.

"Yes, but I'd still be in Texas," was the typical Texan's rejoinder.

M/Sgt. Leslie J. Roper, instructor in the Signal unit, Tech ROTC was sworn in as a Warrant officer July 14 on his return from the Signal corps summer camp at Ft. Monmouth, New Jersey.

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