Friedan Coming to Pay Lib Service

Bette Friedan, author of best-seller "The Feminine Mystique" and president of the National Organization for Women, is speaking at 11 a.m. Tuesday in the SCUAD auditorium, where Smith is in residence.

Mrs. Friedan, who helped organize the women's liberation movement, was born in Picoia, Italy, and was graduated cumma cum laude from Smith College. She was a student of Gestalt psychologist Kurt Koffka and has held a research fellowship at the University of California in Berkeley. She has assisted in early experiments in group dynamics at the University of Iowa in the 1940s.

Mr. Friedan wrote the "Feminine Mystique" after five years of research and travel, when she spoke with doctors, psychoanalysts, marriage counselors, educators, and motivational researchers. She also interviewed eight women in depth, and the interviews lasted from two days to nine months. The book has been translated into 22 languages, and it has sold more than a million copies. The original edition is now in its 11th printing.

Mrs. Friedan's appearance is sponsored by the Village Council. Program Director Randa Russell says Mrs. Friedan's book and thoughts are "well-founded and deep," and the topic is an important one for the community.

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(Continued on Page 2)

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By BETTY RUSSELL

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(Continued on Page 2)
Some Is More Than None

Congratulations FTU! You saw 305 people at your first on-campus wrestling meet. You are averaging about 100 spectators at each home basketball game and some even travel to away games. Your Science Auditorium shows movies to an almost full house.

And It Never Gets Old

Did you ever wish that you had one thing that sort of digested the year’s events, the memorable experiences, your college career? If you have, you probably will someday. And then it will be too late. You can plan for that day ahead by purchasing a yearbook.

Dear Editor:

Due to the nauseating reporting, the one-sided biased opinion and the pure slanted writing of a reporter such as Al Fickett, who Iran's war isn't worth it anyway, we want you to give us the facts before he writes his articles, the FTUme newspaper is coming to be known as an unreliable source for information. For the above reasons, I feel Al Fickett has truly earned the "Pig Journal Award.”

I am referring to Al Fickett’s Overview article in the January 8 issue of the FTUme. In this article he claimed that through skullduggery, a member of the business fraternity Delta Sigma Pi played a role in that organization’s winning the Group Effort Award Trophy.

If Al Fickett were an objective reporter he would have checked with the mascot committee to learn the true concerning the method used to count votes for the Group Effort Award. You would have learned that a faculty member, Mr. Marian Price and a staff member, Mrs. Mary Davis were the only two people to evaluate the efforts of all the organizations on campus who promoted a mascot.

I, being the third member of that committee, a student and a member of Delta Sigma Pi Fraternity informed the above two members of the mistaken impression I would not evaluate any floats, posters, or events, etc. to there could be no claims by the students that the votes were fixed. I had no idea to what organization had won the award until the end of the mascot campaign week after the votes were totaled.

Mr. Fickett, you owe an apology to the mascot committee and the students of FTU for intimidating that the voting was fixed. You owe an apology to the second place winners for making them believe (when you did not have all the facts) their wrong accusations were correct.

Most importantly, you owe an apology to the brethren of Delta Sigma Pi for your libelous statement.

Paul Stice
Vice President
of Delta Sigma Pi
Co-Chairman
Mascot Committee

Share Vincent!

Dear Editor:

Please share Vincent! This is a great chance for the Village Center to have a publicity symbol besides a decorated pennant. Perhaps this would be a rallying point for students and encourage them to attend their event, as we do our public club symbol. We would have enjoyed the prestige of being sponsored by the VCL.

The basketball team is known as the Kouts of Pegasus, the baseball club is known as the Gold Fox, the drill team is called the Alpha Delta Pi Tulip, and the other official mascots. Even in the United States, although the national bird is the bald eagle, each state has its own state bird - and some states use the same bird.

--An Interested Student

PLC Open To Grads

The Piston Leaders Class officer training programs have been available only to college freshmen, sophomores and juniors in the past. These programs are now open to eligible seniors and graduates that are enrolled in or plan to enroll in graduate school. All courses of study are included except medicine, dentistry, veterinary medicine and theology. Law students may enroll during their first or second year of law school.

All candidates who attend the PLC Combined Training Course at Marine Corps Schools, Quantico, Virginia convening June 14, 1971, Candidates who complete the course receive commissions of second lieutenants and return to complete graduate school on an active status. Those who do not complete the PLC Combined Training Course (for any reason) will be discharged from the program with no further obligation to the Marine Corps.

For more information, contact:

D. C. Corbett, Major, USMC, P.O. Box 27, P.O. Building, Jacksonville, Florida 32201.

Thank you,

Major Corbett

The Future

The Future is the weekly newspaper of Florida Technological University at Orlando, Florida. The Future is published by the Student Government and is made available to all students of Florida Technological University.

The editorial opinions expressed are those of the students of the university or its administration. The Future reserves the right to reject or print any letters which are submitted. All letters must be the full responsibility of the person who wrote the letter. The Future reserves the right to publish letters without notice. Address all letters to: Editor, Future, P.O. Box 8300, Orlando, Florida 32801.

Advertise in second-class matter at the Post Office at Orlando, Florida.
Afghan Exile
To Rank As
2nd Tech Doc

By Nancy Smith

"I'm very impressed...he's a valuable asset," he's really a nice person...I think the students will probably like him.

These are just two of the comments made by Student Health Service personnel about the new doctor, Mohammed Tahir. The coming of Dr. Tahir now gives the SHS a full-time physician on campus, who is available from 9 a.m. to 5:30 p.m. Dr. Edward Stoner, Director of the SHS, will still hold clinic hours from 9:30 to 11:30 a.m.

Nurse Barbara Klein added "By having a full-time physician on campus, it makes a more workable situation for both students and the Health Service staff."

Dr. Tahir originally comes from Afghanistan, and came to the U.S. when he was 21 to study medicine. He is rather reticent about his home, but does say he returned once during World War II and left again because of politics. He has no desire to return because "I would not be safe there." He has a brother and sister in Afghanistan that he has not seen for 25 years.

After he came to the States, Dr. Tahir received his pre-med training at Columbia University, New York, and his M.D. degree from the Long Island College of Medicine in 1959. He had a private practice for 24 years and then was on the staff of the Fort Lauderdale (Fla.) Veterans Administration hospital before he retired to Florida in 1969.

However, after a year of non-working, Tahir says he got "restless," and went out to PTU to look around the campus, and eventually was hired by the Personnel office, asking if they wanted a doctor. The reply was "Yes!" and Dr. Tahir began working January 4.

His jobs are the same as Dr. Stoner's: working as a physician to all full-time students and administering first aid to part-time students, faculty, and staff. Both doctors are also on call through the SHS.

When he was called to the Personnel office, asking if they wanted him, he was previous to his coming of Dr. Tahir now gives the SHS a full-time physician on campus, who is available from 9 a.m. to 5:30 p.m. Dr. Edward Stoner, Director of the SHS, will still hold clinic hours from 9:30 to 11:30 a.m.

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Stadium Problem Grave
In Eyes of ‘Guardians’

FTU's new campus doctor, Mohammed Tahir, relaxes a minute to speak to a FuTure reporter about his impressions of America and his new job, which will be to be on campus full time to aid Dr. Stoner. (Photo by Randy Drake.)

This brings the SHS staff to ten, including two day nurses, one evening nurse, one night nurse, two weekend nurses, two secretaries, and the two doctors.

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Stadium Problem Grave
In Eyes of ‘Guardians’

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Notice: Any person apprehended breaking the law in this building will be evicted and prosecuted to the full extent of the law. This includes smoking or drinking any illegal substance.

The above words, printed for all to see at the entrance of the Orlando Sports Stadium, express the sentiments of both the police and the management of the establishment. There has been a great deal of controversy since June 12, when rock concerts were in progress on the premises. The latest legal action in the case is a suit, the concerts claimed in the suit, the concerts were being considered and practiced by the manager of the stadium, Jim Hayes.

Security measures designed to thwart illegal acts are constantly being considered and practiced by the manager of the stadium, Jim Hayes. In an interview, Hayes said that during the concerts, between 10 and 15 off-duty Orange County deputies are hired to patrol the areas inside and out. He repented of their riotous living and bemoaned their fate, but it availed them naught. Wise burners of the midnight oil.

And they were sore afraid, for they had prepared themselves the way they ought not to have done. And there was no help for it. And some were who rose peacefully, and many and varied were the answers that were given.

While others had fallen flat. For they had prepared themselves the way they ought not to have done. And there was no help for it. And many and varied were the answers that were given. For some of his teachings had fallen among fertile minds, while others had fallen flat.

And some there were who wrote for one hour, others for two; when some turned away sorrowful, and many of these offered up a little bull in hopes of pacifying the instructor, and these were the ones who had not a prayer.

And when they finished, They gathered up their belongings and went their way quietly, each in his own direction, Each one saying nothing to himself in this manner "I shall not pass this way again." —Anonymous

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COLONIAL PLAZA

CIGARETTES AT A LOW 4¢/
Quickly Education Rapped by Bolte

By DAVID BRYANT

The next time you are working around campus, thinking about answers that are important to you, be sure that you are in on most of the stop and consider the question of why, should we shorten the baccalaureate degree, or change the program in some way that would enable us to spend as much real time in school, but still wrap it up in less than four years. How about going four rounds?

It is not as far-out as it seems, this idea of shortening school, and with just a little investigation, becomes apparent that a lot of people (primarily students) would agree that it does take too long to get a degree. After all, everyone knows that we have to take some courses that we would rather not, and that our majors there is no possible way of connecting the two or more fields.

Not only are we forced to take unnecessary courses, we are sometimes faced with taking courses that, although they may be in our majors, we can not see any need for, and yet, make up a part of the superfluous waste, let us take the example of how much time is wasted if we are to stand in the computer program is set up. The demonstration series devoted to the battle between the sexes? It would last two hours. attitude of Tech's female and organization. The exhibit will be conducted at the same time and in engineering, and Dr. Ernst M. Goldstein serves as coordinator for the series in his role as Chairman of the Education Committee of the Technological University of Florida. Registration fees are $10 (ASM members, FTU faculty, students), and $10 (others). Information can be obtained by contacting Dr. Goldstein at either 752-0701 or 421-6623.

"Unconscionable to me how it would be possible to shorten the time in school, and still produce educated people." He went on to say going to your round school was silly because too much happens in college to be absorbed completely. That is, a person needs some time to just reflect upon what he has been exposed to.

Bolte lamented the fact that not only does one consider the time it takes for the college time was short. So, as eternal as the time in school, how can we expect there to be people who want it lengthened, and there are people who would consider it shortened. But most of all, remember that by shortening school time, the real result would most often be people who could function in certain fields in less than four years, they would have to be very limited in the awareness of the issues and events in society.

Also Bolte said, "I don't think the educational system can become so more efficient, more of the syllabus. I feel we would not preserve the quality of our education if the college time was shortened.

In the case of the battle between the sexes, it is a battle of chauvinist versus chauvinist. The blinder a person has, the better they will do. The battle is on, and a stiff brace that keeps the attitude of Tech's female and organization. The exhibit will be conducted at the same time and in engineering, and Dr. Ernst M. Goldstein serves as coordinator for the series in his role as Chairman of the Education Committee of the Technological University of Florida. Registration fees are $10 (ASM members, FTU faculty, students), and $10 (others). Information can be obtained by contacting Dr. Goldstein at either 752-0701 or 421-6623.

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The bill stated that the two Student Senate which would give action. All the presidents were Government standing committees: who voted for them. At this time bill was voted doing something for the people January 15, 1971 Presidents Council. They shall have the constitution the powers of the delegations and shall sit on the

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We think this is an appropriate time to talk about student apathy. There is a chance that these people might have to be replaced; also, there are some who have graduated and have had to leave. There are some people who are claiming that student government isn’t really doing its job. We suggest that these people run for the open offices themselves. It’s really easy being a sideline complainer.

People on the go at Florida Tech as BURGER CHEF HWY. 17-92 at Casselberry, Fla. (across from Seminole Plaza)

What's our secret? It's open flame cooking. Each of our 100% pure beef hamburgers is cooked over open flames, seating in all their natural beef goodness. Treat the family to- night to cook-out hamburgers.

Can Spring Be Far Behind?

Our Kahn Man In S.G.

by FRED KAHN

A bill was introduced into the Student Senate which would give more power to the class presidents. The bill stated that the two class presidents shall sit on Student Government standing committees with a vote in the committee. This bill was voted down by the Student Senate.

There was considerable feeling that the senate was wrong in this action. All the presidents were asking for was a little more power and to feel that they are really doing something for the people who voted for them. At this time the power of the class presidents and the governors of the colleges are exactly the same. As stated in the constitution the powers of the president and governors are as follows: "They shall provide over meetings of their individual senate delegations and shall sit on the Presidents Council. They shall have the power to appoint such administrative assistants as deemed necessary." It may well be unnecessary to have two elected officials doing the same job.

The Senate has approved all the budgets of that admitted budgets. The bills were passed very quickly and without much debate.

We would like to congratulate the Budget Committee on the fine job that it did. It isn’t an easy job preparing a budget when there are no many organizations on campus asking for money.

Some student leaders have been suspended from their positions. They have been suspended because of unexcused absences, but they do here a two-week appeal period. The suspended officers are Senators Bill Hagan, Sharon Ramer, and Dave Spitzer, and Governor Bob Bryan, Mike Mucklow, and Don Opperman.

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The following is the liberal and conservative side of the question: "Should the rock concerts at the Orlando Sports Stadium be discontinued?" These questions were chosen from those turned in to the Futune office. The Futune thanks all students who turned in articles.

The liberal and conservative sides of various issues of local and national interest will appear each week. The conservative side will be written by Craig Morehouse and Bill Castellano will handle the liberal side.

By BILL CASTELLANO

Nearly three centuries ago a group of determined English revolutionaries succeeded in forming a unique democratic system. That system has survived the test of time, something few other democracies have been able to do in world history. Yet, the decade of the 1970s people who unselfishly serve the state and its system of government with a supreme challenge - a challenge that the leaders of Central Florida has failed to meet.

The continuing controversy regarding rock concerts at the Orlando Sports Stadium is a symptom of the failure. Many law officers and politicians suggest that banning the concerts is the solution to rowdy conduct and drug abuse. Unfortunately, those officers are making the easiest road and offering the simplest solution.

However, what if that same philosophy was used in other law violations? In the case of the drunk driver all vehicles would be banned - of course, each action is impractical. The key issue here is to treat both IWH case as it is, individual in nature, rather than penalizing the innocent majority.

The principle concerning rock concerts should be no different. Our local leaders should have the moral and physical courage to attack the drug problem and authority/youth communication barrier with the rhetoric and showmanship of the past. Both the rhetoric and showmanship have succeeded only in further widening a widening gulf of local misunderstanding.

It is now the responsibility of government and the law enforcement agencies in Orange County to reopen the channels of communication. It is their responsibility because they have the power and public relations to bring about change. Such action would not be easy, but the alternative is too frightening to think about.

What is the risk? There was the Winter’s End concert, the Rock Springs (Gator) and now the most recent Sports Stadium incident. Far too many people have the idea that the latest form of conservative authority stifling free expression. Whether the grievances are valid or not is really beside the point - the unrest is present.

The risk, then, is counter-reaction to over-reaction of the citizenry all danger to the wave of public sentiment. It is RISK NO CONSEQUENCES. With a LEADER DIRKERS FOR HIMSELF THE COURSE WILL FOLLOW. Our political leaders must not continue to fall victim to the same crime of that plagued Creon in ANTIQUE. Good men recognize the necessity of changing course when they know their cause is wrong. The only crime is pride. The jury is out, but we shall surely deliver the verdict on the actions of our local authorities - a verdict of NOT GUILTY!

By CRAIG MOREHOUSE

Dialogue is as dialogue does, and sooner or later the community will come to see who is doing what the people want done, rather than what the people are told to do. The change will begin with the people, with each of us, with our willingness to vote our conscience. It is not easy, but that is usually the case when a symptom is treated rather than the disease. The repressive of the concerts will further dividing a widening gulf of local misunderstanding.

It isn’t an easy job bringing about change. The responsibility because they have the power and public relations to bring about change. Such action would not be easy, but the alternative is too frightening to think about.

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East and West Meet
In FTU Art Exhibit

By GLEACE KIEHER

Objective information concerning the exhibition in the Library Building is not available, at least in brief. Lynn Walker, director of libraries, and Dorothy Ramson of the Fine Arts Department deserve recognition and congratulations for their efforts in creating this exhibition. Secondly, the show will run through January 29.

One half of the exhibit is devoted to a display of Renaissance Art, with emphasis given to woodcut technique and surrounding presentation of amphora, figurines, shell jewelry and coiling utensils made of clay, wood, sandstone, alabaster or granite. However, among the tiny blades and arrow heads a bit of whimsy has crept in, for one statuette clearly portrays an ordinary man suffering the pain and frustration of a mundane but human malady quickly becomes a common denominator. Among the pieces are erected during the Christmas vacation and will replace the two-year-old, weatherbeaten, wooden sign that has served FTU since its opening in 1930.

A photograph of a 14th Century Buddha is counterposed opposite a photograph of the circuit chips of an IBM computer, systems 360. Wood, glass, clay, steel and plastic are carved, fired, welded, painted and shaped into forms that run the gamut of naturalistic to bizarrism.

Examples of Renaissance, Op and Abstract art are placed next to a photograph of the circuit chips, systems 360. IBM, Royalty.

Campbell's Soup's and Marilyn Monroe are not forgotten. All are presented in their appropriate setting.

In searching for a key to understand this bewildering display I discovered that the first key lay in understanding the people who created the objects and the loneliness that object/human existence must be experienced. Further on he comments that "To be able to perceive/need to be able to recognize/therefore there are those, where art exists not..."
The second key came from Miss Kannon, Miss Ramon, Miss Murray and the number of people who exhibited in the area. In the area exhibited in the area, the individual might come to see himself as a consequence of the show. Attempting to unite the human elements in the scene I believe that the noble spirit for self-awareness may, at least, some premonitory and presumptions. But potentially the hands in the hands of people, one may come to see himself as, first, an individual, and secondly, as an integral part of an historic, ethnic, and organic whole.

Area Biology Teachers To Be Taught Ecology

Twenty Orange County high school biology teachers will be selected to attend an Institute of Fish Water Ecology summer training program at FTU. The program is directed toward the development of a biological science curriculum in the area. The program is being brought to Orange County's secondary schools.

Selected but partial will be selected from that group, he said. Selection procedures for participants will be announced at a later date.

Another FTU faculty member in addition to Drs. Allen and Chesnut who will comprise the FTU Art Exhibit will be Dr. Donald E. Henley, assistant professor of biology.

Maddron indicated that the county currently has 56 qualified teachers serving in secondary schools. The 30 who will attend the FTU Institute this summer probably selected from that group, he said. Selection procedures for participants will be announced at a later date.

Other FTU faculty members in addition to Drs. Allen and Chesnut who will comprise the staff are Dr. Rudi J. Wodzinski, professor of biological sciences, and Dr. Donald E. Henley, assistant professor of biological sciences.

STUDENT TEACHING

Application forms for senior year student teaching during the 1971-1972 academic year may be obtained by January 31.

The FTU Student Chapter of the Association for Computing Machinery will hold its monthly meeting on January 24 at 11:00 a.m. in room EN 359. The featured speaker will be Allan Mills of IBM. He will give a talk on computers in hospitals. All students, members, and faculty are invited to attend.

Does your major require you to manipulate numbers quickly. Here is your chance to pick up the betagon log—log slide rule in the Mechanical Engineering Aerospace Sciences. Student Organization Raffle. The MEAS

ruffling off a $27.50 slide rule at first price and an executive attack case in the January 24 raffle.

There is a $15 donation per chance. Raffle tickets may be purchased at the meeting. All students, members, and faculty are invited to attend.

The Young Democrats will hold a meeting open to the public on Monday, January 25, at the Hilton Inn West. This meeting which is another in a series of "Political Symposia," will begin at 7:00 p.m. The meeting will be presented by Senator Frederick B. Karl (D), Governor of the State of Florida who now sits as chairman of the Senate Commerce Committee. Senator Karl will present "Consumer Protection and Its Impact Upon Us." At the close of his presentation, the floor will be open to questions from anyone. Also at this meeting will be a representative for the American P.O.W./M.I.A. in North Viet Nam who will show a film and present the case for the release of the coefficient of shine and ask for assistance.

On January 25, the State Executive Committee of the Young Democrats of Florida will meet in Jacksonville, Florida to discuss business including the Regional meeting to be held at the River Center. All business will be entertainment and a cocktail party.

Information desired is needing more information please contact the Student Government Center. Deadline for entry is February 1.

If you don't see what you want, ask for it!

1972-73 effect continue

You can order through our Student Government Center. President, Dick Betchehal 402-3160.

MUSIC COMPETITION

The University of South Florida will again host the Intercollegiate Music Festival Southeastern Regional this year in a search for the top talent from colleges within the southeastern region. The competition, to be held April 23 and 24 at South Florida, will select top performers in Pop/Rock and Folk music. The competition will be nationally in St. Louis.

The University of South Florida series FTU students to participate in this competition. Information and application blanks are available through Wanda Russell in Room 141 of the Engineering Building. Deadline for entry is February 1.

If you don't see what you want, ask for it!
Tri Of Professors Profiled

By Weber Ivy

Well, "Okay, what do you want to know?"

Reporter — "Well, it's standard procedure to get a very general idea of the future professor: place of birth, degrees earned at that school in a field, career highlights before coming to FTU, feelings about FTU..."

Dr. Levenson — "I was born in Boston and served in the Air Force before I earned a B.A. in philosophy from Boston University in 1959. At Florida State, I was employed in the Office of Student Affairs in 1961, and a Ph.D. in intercultural communication and history. My specialty is medieval historical philosophy, processes and concepts."

Reporter — "Is it difficult to get your students interested in medieval philosophy?"

Dr. Levenson — "Listen, if I understand correctly, they wouldn't bother with it. Actually, the medieval and modern outlooks are not inconsistent. We are very much interested in the same ideals and truths as new ones. The entire university concept, or a university's administration, its organization, I speak of the university concept, the institution, not specifically FTU. The medieval institution develops the sense of human dignity, man's relationship to his world, to what it is and how to control the movement of the solar probe, aircraft and vehicles during his three years as administrator and director of Martin Marietta research."

In addition to instructing future engineers, Dr. Wall also serves as chairman of the Student Affairs Committee, and has authored a textbook on the techniques and procedures used in this university's graduate catalog of courses.

A Canadian by birth, Professor Ronald Browne of FTU's English department, was enlisted in the U.S. Marine Corps in 1943, served in France, and is a member of this university's graduate catalog of courses.

His two sons, FTU freshmen John and Vincent, are employed by the Orlando Sentinel. Wife, Emma hails from Nashville, Tennessee.

Dean Micarelli — "Well, he's an original thinker, a fine individual, outstanding teacher."

Student 1 — "Oh, he's not the same man in the street, you see. He's really different."

Student 2 — "I'd rather not talk about that."

Reporter — "Just one comment?"

Student 2 — "No, no..."

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**Trio Of Professors Profiled**

*By Weber Ivy*

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**What's Your Problem??**

*(What's Your Problem will be a weekly column devoted to answering your questions about almost any subject. If you think something needs to be corrected, but you can't fight City Hall*, ask us, and we will either get action or an answer. Touch all questions to "What's Your Problem?".)*

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*EXCEPT work shoes and all men's and boy's BOOTS*.

Buy one pair of

**BOOTS**

at our Reg. low price and pick a second pair up to Equal Value for

**$1.00 Sale**

*SEMINOLE PLAZA CASBERRY*
The newly elected officers for the winter-spring quarter are: Consuelo P. Pro Omen — President; John Hartman, Quartermaster — regimental chaplain; Anna Jansen, Historian — Ralph Hageman; Tape McIlvaine, Magistrate — Frank Harrison; Anne Maguire McCulley, Tribune — Tom Smith; Dave Krych, Chaplain Editor — Jim Jolley and Sgt. At Arms — Robbie Koon.

Last Thursday night the TEKE met at their regularly scheduled meeting to elect officers for the new year. Those elected were Ken Lawler, — Prytanis (pres.); Tim Omlin — Empyrgynus (vice-pres.); Dean Minx — Grammaceus (sec.); Jon Williamson — Gysydaphoe (treas.); Brian Shadow — Hypothetics (chp.); Fred Carter — Histor (stat.) and Mike Morbrook — Hodgemon (pledge trainer).

Proceeding the election the formal Installation Ceremonies were held for the fall quarter pledges. Those initiated were: Eddie Parks, Steve Barry, Scott Cornel, Mark Foster, Brad Hart, Clay Kearney, Rick Kelle.

Alex Jon Kipris, Richard Oxley, Chris Peers, Pat Strong, Bill Wood, Kevin Witherod and Dennis Whitmore.

Seen around local golf courses have been the green and gray of TKE brothers preparing for their annual Golf Tournament Weekend between all the brothers.

In support of the FTEC's graces the TEKES have played in two game contests, defeating Phi Alpha Epsilon and Lambda Sigma Alpha 58-38. The brothers of TKE would like to congratulate all the players and coaches on the expansion tournament.

During the recent holidays the TEKE held its annual Retreat, where the brothers found themselves climbing the highest peaks of the world. Proceeds will go to the FTE Foundation.

Delta Tau Fraternity is also sponsoring the TKE's Homecoming week. The brothers have been busy planning a week of activities to be held on Saturday night. Those activities include a dinner at the Alumni Home, a dance and Homecoming, both in mid February.

Delta Tau Fraternity is working with the Homecoming committee sponsoring the TKE's Homecoming week. Information will be sent out to all Greek organizations and 100% participation is expected. The brothers will participate in the Greek organizations and 100% participation is expected. The brothers will be at the American Legion and Station on the corner of Fairbanks and 18th.

The Lambda Chi Alpha toasted the New Year with their traditional New Year's Day for the last time in their house. The brothers and their family were joined by the family of the Lambda Chi Alpha National Officers. There were also several meetings and resolutions that were passed at the Lambda Chi Alpha Alumni event.

The Sigma Chi Fraternity is proud to introduce their newly initiated brothers into the fraternity. They are: Jon Jolley, Dave Jansen, Stan Morton, Larry Hecks, Ralph Lomax, John Hartman, Bernie Rieder and Randy McCulley. The initiation was held at Howard Johnson's in December and there were several members of the Lambda Chi Alpha Alumni present.

The Sigma Chi Fraternity has chosen those new Sweethearts — Lynn Lindsay, Margaret Nielson, Moonee Moline, Kal Kouts, Nancy Cox, Cindy Regelstorf, Mini Elmore, Darlene Brown, Ann Stewart Westley, Raelle Hamlett, and Gail Brawley.

The initiation for the new Sweethearts will be Sunday, January 17, at the Howard Johnson's on Sunset and Wilshire, once again hosted by the Lambda Chi Alpha Alumni and friends.

For the Brothers of the Alpha Epsilon Chapter for the winter-spring quarter are: Consuelo Pro Omen — President; John Hartman, Quartermaster — regimental chaplain; Anna Jansen, Historian — Ralph Hageman; Tape McIlvaine, Magistrate — Frank Harrison; Anne Maguire McCulley, Tribune — Tom Smith; Dave Krych, Chaplain Editor — Jim Jolley and Sgt. At Arms — Robbie Koon.

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IT'S FUN TO SHOP "SUPERMARKET STYLE" AT YOUR CALECTRO DEALER WHERE YOU'LL FIND ALL ITEMS DISPLAYED FOR EASY SELECTION. YOU SEE WHAT-YOU-BUY... AND YOU'LL FIND COMPLETE DESCRIPTION, SPECIFICATIONS AND "HELPFUL HINTS" ON EACH PACKAGE.

SELF SERVICE SHOPPING FOR ALL OF YOUR ELECTRONIC REQUIREMENTS

HIGHEST QUALITY AT DISCOUNT PRICES

CALECTRO 1 STOP SHOPPING

21ST CENTURY ELECTRONICS
Formerly Consumer Division Electronic Wholesalers, Inc.

HOLLYWOOD, FLORIDA
440 S. State Road #7
Rt. 441

SOUTH MIAMI, FLORIDA
8476 Coral Way

ORLANDO, FLORIDA
345 Graham Ave.

FERN PARK, FLORIDA
118 Highway 436

WHEATON, MARYLAND
11151 Georgia Ave.

WINSTON-SALEM, NORTH CAROLINA
938 Burke St.

SEE OUR VALUES NOW!
STUDIO QUALITY MICROPHONE
Dynamic, Omni-Directional
A
Excellent tone quality, for voice and music uses on stage, recording, broadcasting, public address systems, etc. Beautifully styled satin chrome housing of die cast metal. Built-in on/off switch. Swivel mount. 20 foot cable with connector included.

SPECIFICATIONS
Frequency Response: 80 to 12k Hz.
Output: -56 db Impedance: 50k ohm.
Cat. No. Q4-150
$17.95 Net

BROADCAST QUALITY MICROPHONE
Dynamic, Omni-Directional
B
For highest fidelity recording of voice or music. Unequaled at virtually any price! Omni-directional for perfect pickup of groups, bands, audience, etc. Gives real "presence" to tape recording. Exquisitely styled black finish with satin gold trim. Cast metal housing with swivel. On/off switch built into mike stand connector. 20 foot cable with connector included.

SPECIFICATIONS
Frequency Response: 50-14k Hz (virtually FLAT from 100 to 8k Hz).
Output: -56 db Impedance: 50k ohm
Cat. No. Q4-154
$18.95 Net

PROFESSIONAL ENTERTAINER & SPEAKER MICROPHONES
RECORDING, BROADCAST AND P.A. MICROPHONES for soloists, announcers, entertainers and public speakers. Wide, flat frequency response puts these mikes in the truly professional class. Built-in "pop" and wind noise barriers. Special swivel holder permits easy shift from stand to stand. Built-in on/off switch.

OMNI-DIRECTIONAL DYNAMIC TYPE
Exceptional "life like" sound reproduction. Light, slim, and finished in beautiful satin silver.

SPECIFICATIONS:
Frequency Response: 55-13,000 Hz
Impedance: 300-2000 ohm
Output: -56 db; Impedance: 200/50K ohm
Cat. No. Q4-157
$19.95 Net

CARDIO TYPE, DYNAMIC
Minimizes pickup from back and sides. Reduces feedback problems and extraneous noise. One of the finest cardio type microphones at any price.

SPECIFICATIONS:
Frequency Response: 50 to 13k Hz.
Output: -56 db Impedance: 50K ohm
Accessories: 10 foot cord with connector, lavalier strap
Cat. No. Q4-152
$23.95 Net

MINIATURE DYNAMIC MICROPHONE
Versatile, High Fidelity, Omni-Directional modern mike for tape recorders, communications, paging, etc. Impedance: 50k ohm; Output: 56dB; Frequency Response: 100-8000 Hz. 4ft. cord with miniature phone plug.

$4.95 Net
Cat. No. Q4-184

Also available:
- 1 Watt Model: $6.95 Net
- 2 Watt Model: $11.90 Net

LAPEL MICROPHONE
Popular all purpose high impedance crystal mike for hobbyist, experimenter, student. 1½" diameter—gold finish—miniature phone plug. Impedance: 85k ohm; Output: 60dB. $1.25 Net
Cat. No. Q4-189

MUSICAL INSTRUMENT CONTACT MICROPHONE
Clips on guitars, violins, cellos, ukuleles, mandolins, etc. Play the instrument through your amplifier, radio, recorder, etc. Built in volume control: High impedance.

Cat. No. Q4-194
$3.25 Net

TELEPHONE PICKUP
With this amazing device you can record or amplify both sides of phone conversations. No wire connections to phone , suction cup attaches to receiver. Miniature phone plug connects to amplifier or recorder.

Cat. No. Q4-199
$1.05 Net

TWO WIRELESS STATION INTERCOM
Just plug into any electrical outlet and talk. No installation — no wires. Completely portable; it's ideal for use between kitchen, workshop, basement or in offices, warehouses, etc. Attractive "keyboard" push buttons with locking feature for baby monitoring, or dictation. Expand system anytime with additional units.

Two unit complete system $34.95 Net
Cat. No. Q4-110

JUST PLUG IN...
SPEECH MICROPHONE

Crystal Type, High Impedance

Here is an inexpensive "all purpose" mike—complete with three attachments: (1) Desk Stand (not shown in picture); (2) Floor stand adaptor with swivel adjustment; (3) Lavalier cord with holder. Excellent for all speech uses from P.A. systems to tape recording. Brushed satin finish metal housing. 4½ foot cord with miniature phone plug. Features built-in on/off push switch that locks in place when desired.

SPECIFICATIONS


Cat. No. Q4-147 $5.95 Net

COMMUNICATION MICROPHONE

Dynamic, High Impedance

Developed for use by "hams", citizen band base station, and general paging needs. Features desk stand with rocker type on/off switch. Flexible 6" gooseneck. Excellent acoustical qualities especially for voice.

SPECIFICATIONS

Frequency Response: 100 to 8,000 Hz. Output: -50 dB. Impedance: 50k ohm. Accessories: 4½ foot cord with mini phone plug.

Cat. No. Q4-148 $5.95 Net

ALL PURPOSE MICROPHONE

Cardioid Dynamic - Hi Fidelity

Compact in size—outstanding in performance for recording, announcing, paging, P.A., etc. Cardioid directional sound pattern minimizes sounds coming in from back and sides. Adjustable desk stand.

SPECIFICATIONS


Cat. No. Q4-145 $12.00 Net

LAVALIER MICROPHONE

Dynamic, Hi Fidelity

Lightweight, compact, rugged construction. Perfect for public speakers, interviews, sales demonstrations, etc. A professional instrument with excellent frequency response assuring life-like speech and music reproduction. Use as hand held mike or with neck strap (supplied).

SPECIFICATIONS

Frequency Response: 100 to 15,000 Hz. Output: -50 dB. Impedance: 50k ohm. Accessories: 3 foot cord with miniature phone plug.

Cat. No. Q4-142 $7.95 Net

TAPE RECORDER MICROPHONE

Dynamic, Low Impedance, Remote Control

Outstanding performance on music and speech considering the price. For the recording enthusiast who wishes to improve the quality of his low or medium priced tape recorder. Low impedance matches late models (solid state) recorders. Removable desk stand; ½ foot cord has dual plugs that fit most makes and models.

SPECIFICATIONS


Cat. No. Q4-146 $4.95 Net

STEREO HEADPHONE EXTENSION CORD

Enjoy listening from your favorite chair. Just plug in and have freedom of movement. 2½ foot; Standard 3 conductor plug and jack at ends. For greater length use 2 or more cords.

Cat. No. Q4-278 $3.75 Net

STEREO HEADPHONE JUNCTION BOX

For connecting stereo phones to amplifiers which are not equipped with a phone jack. Easily attached. Built in circuit to prevent overload. Has switch to select between phone only, speakers only, or both.

Cat. No. Q4-226 $4.95 Net

SUB MINIATURE RELAYS

The ideal relay for 6½" or 7" speaker systems, or loudspeakers of any size. 10 to 50 foot cord and adapter is furnished. A. 1-1/2" wide; 2-1/2" high, 16” leads. B. 2-1/4" wide; 2-1/2" high, 15" leads. C. 1-1/2" wide; 1-3/4" high, 12" leads. D. 6 foot cord w/5" leads. E. 3 foot cord w/5" leads. F. 6 foot cord w/3" leads.

Cat. No. Q4-149 $1.75 Net

SMALL PRECISION RELAYS

A precision relay comprising a miniature relay switch and relay body, long life was good sensitivity. For printed circuits or conventional wiring. A. ½ inch AC 600-1 HP AC 120 volt. B. 1-1/2" wide; 1-5/8" high.

Cat. No. Q4-231 $2.75 Net

POWER RELAY

For switching heavy loads such as motors, power supplies, etc. A. 117 Volt AC or 12 Volt DC, 5 Amps, 1-1/2" wide; 1-1/2" high. B. 12 Volt AC or 12 Volt DC, 15 Amps, 2-1/4" wide; 1-3/4" high. C. 117 Volt AC or 12 Volt DC, 50 Amps, 3-1/2" wide; 3-1/2" high.

Cat. No. Q4-141 $4.95 Net

HIGH FIDELITY STEREO PHONE

Superb performance—like listening to a $500 speaker system. Extremely comfortable, soft sponge rubber cushions and fully adjustable headband. Frequency range from below 20 to 20,000 cycles. Connects to amplifier outputs from 4 to 16 ohm. 6½" extra flexible cord with stereo plug.

Cat. No. Q4-131 $13.75 Net

VARIABLE BALANCE STEREO PHONE

The ultimate in comfort and sound reproduction. Equal to the finest headsets available. Unique "Sound Level" control on each earpiece permits adjustment to your own personal preference and balance. Frequency range: 20 to above 20,000 cycles. 6½" cord with stereo plug. Impedance 4 to 16 ohms.

Cat. No. Q4-132 $17.95 Net
**MAKE YOUR PHONE PORTABLE!**

**TELEPHONE PLUGS, OUTLETS AND EXTENSION CORDS**

Use them in any room in the house. Install these devices in minutes, and add great convenience and privacy to your phone conversations.

25 FT. PHONE EXT. CORD

Heavy duty, flexible, small resistant cord with standard 4 prong plug and jack securely molded at ends. A great convenience for every household.

N4-026  $2.98 Net

25 FT. TELEPHONE CORD

Use this cord where it is impractical to install plugs and jacks. In replacing the regular short cord with this 25 ft. cord, you can take your phone from room to room to the kitchen, bathroom, backyard, etc. Cord has 3 color coded conductors, with lugs at ends.

Cat. No. N4-025  $1.98 Net

**STANDARD 4 PRONG PHONE PLUG**

Fits all single and 2-line phones. Easy to attach to cord with screw terminal. No soldering. Ivory color.

Cat. No. N4-022  $0.99 Net

**STANDARD 4 PRONG PHONE JACK**

This outlet mounts to the wall with 2 wood screws which are included. Screw type terminals. Ivory color.

Cat. No. N4-023  $0.98 Net

**TELEPHONE WALL OUTLET**

Same as telephone jack listed above, but mounts in regular electrical outlet box. May also be flush mounted to wall without box, using special brackets supplied.

Cat. No. N4-024  $1.75 Net

**SOLID STATE ANSWERING INTERCOM**

Identify visitors before opening door. Protects you from strangers at the door. Saves many steps if "master" is installed in kitchen or bedroom. Complete 2-way conversation. Easy to hook up. 15 ft. cable included.

Cat. No. N4-101  $12.95 Net

**TWO STATION INTERCOM**

A great time saver in homes and offices. Instant communication between any two locations. Also ideal for "baby sitting" too. Remote station can signal even if switch on master is off. Connects in minutes by plugging cable (65 ft. included) into each unit. Battery included.

N4-100  $12.95 Net

**REMOTE SWITCH CORD**

Why get up from your easy chair, or get out of bed to turn your TV, radio, hi-fi, or other electrical device on or off? This 15 ft. remote control switch cord just plugs in. Completely safe. U.L. Approved.

Cat. No. N4-028  $1.98 Net

**TV INTERFERENCE FILTER**

For the elimination of interference caused by airplanes, CB and "hams," automobiles, electro-medical equipment, etc. Connects between set and antenna lead-in wire.

Cat. No. N4-019  $1.49 Net

**CAR TRANSVERTER**

Just plug this transverter into the cigarette lighter receptacle and connect to your equipment. Zener Diode regulator keeps voltage at proper level. Adapter with alligator clips included.

Cat. No. N4-032  $12.14  6  100 mA  $2.95

Cat. No. N4-033  $12.14  9  100 mA  $2.95

**TV AUDIO REMOTE CONTROL**

Switch off TV sound from across the room. No installation required. Easy to hook up. 15 ft. cable included.

Cat. No. N4-015  $1.45 Net

**FOLDED DIPOLE" INDOOR FM RADIO ANTENNA**

Improve your FM and multiplex-stereo reception. Superior to built-in antenna. Just connect to terminals on your radio and locate antenna behind set, along baseboard, or under carpet. Installs in a few minutes.

$1.79 Net

**DAY 'N NIGHT AUTOMATIC LIGHT SWITCH**

This photo-electric "night watchman" automatically turns on any lamp in your house at night and turns it off at dawn. Your house will look "lived-in" when you are away and you'll feel safer returning to a lighted house. No installation — just plug it in.

Cat. No. N4-011  $5.95 Net

**PHONE AMPLIFIER FOR GROUP LISTENING**

Ideal for "conference calls" at the office and group listening at home. Leaves your hands free for writing or waiting. No "hook-up" just attach suction cup pickup to outside of phone. Battery included.

Cat. No. N4-103  $9.95 Net

**TELEPHONE PLUGS, OUTLETS**

Use EXTENSION CORDS

N4-035  For 110° B & W Tubes  $2.95 Net

N4-036  For 90° B & W Tubes  $2.65 Net

N4-037  For Round Color Tubes  $6.95 Net

N4-038  For Rect. Color Tubes  $7.75 Net

**SOLID STATE TV PICTURE TUBE BRIGHTENERS**


N4-035  For 110° B & W Tubes  $2.95 Net

N4-036  For 90° B & W Tubes  $2.65 Net

N4-037  For Round Color Tubes  $6.95 Net

N4-038  For Rect. Color Tubes  $7.75 Net

**FROST NOISE FILTER**

Reduces or eliminates "static" caused by appliances, office machines, cash registers, razors, lights, heating pads, etc. Just plugs in.

Cat. No. N4-021  $1.19 Net

**POWER LINE FILTER**

Reduces or eliminates "static" caused by appliances, office machines, cash registers, razors, lights, heating pads, etc. Just plugs in.

Cat. No. N4-021  $1.19 Net

**AUTOMATIC TIMER**

ON-OFF SWITCH

Set for any time — up to 60 minutes — and your radio, TV, hi-fi, lamp, fan, etc. will shut off automatically. Convenient 12 ft. cord permits remote on-off operation. No installation — just plug in. Rated 115 V AC. 600 w. max.

Cat. No. N4-005  $7.45 Net
REMOTE CONTROL EXTENSION SPEAKER FOR TV OR RADIO

One of the greatest "convenience items" ever designed. A real blessing for families with children. Combines the advantages of remote volume control with those of an extension speaker.

You can control your volume and you can switch the main speaker on or off by remote control. Allows you to plug in and control an earphone or pillow speaker for complete privacy. A blessing for the hard-of-hearing and invalid.

Twenty foot cable readily reaches your easy chair—your bed— or even your porch or patio.

Cat. No. N-009 $5.00

PRIVATE SOUND FOR SILENT TV VIEWING

Listen to TV or radio without disturbing others. Ideal for children, "lets show" listeners, invalids, and hard-of-hearing.

Attaches to any set. The small control unit is placed for easy access on any phone & a volume control to adjust the sound volume. Also has a switch to turn off speaker in TV or radio. Complete with one earphone & 15 ft. connecting cable.

Cat. No. N-014 $3.95

MINIATURE and ULTRA MINIATURE LAMPS

INTERCHANGEABILITY CHART

<table>
<thead>
<tr>
<th>Fig</th>
<th>Cat. No.</th>
<th>Type</th>
<th>Volt</th>
<th>Amp</th>
<th>Quant/ Pk</th>
<th>Substitutes</th>
<th>Substitutes</th>
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</tbody>
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*70 mOhm to 100 mOhm depending on voltage.
*10 mOhm to 20 mOhm depending on voltage.

BATTERY SAVING AC ADAPTORS

Operate your battery type electronic equipment from your 115 VOLT AC HOUSE CURRENT— and save your batteries. You also have the advantage of full power all the time. Adaptors are equipped with battery snap. Operate at half load to extend battery life. Purpose replacement provided space permits and the original lamp is usable with the power source. Some current ratings may vary. Only exact duplicate replacements should be used if the original lamp is wired in series with the transformers or other components. Where indicated by an asterisk (*) both sheets, size and color may vary.

CATALOG CHART

<table>
<thead>
<tr>
<th>No.</th>
<th>Cat. No.</th>
<th>Type</th>
<th>Volt</th>
<th>Amp</th>
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<td>250</td>
</tr>
</tbody>
</table>

*100 to 2000 ohm resistor in series.

STEREO—ALL SPEED PHONOGRAPH CARTRIDGE

Universal replacement for most 33 1/3, 45 and 78 RPM records. Complete with micro needle, requires no extra accessories. Offered in precision made by Killion.

Cat. No. N-003 $2.95 Net

STEREO—5 SPEED PHONOGRAPH CARTRIDGE

Flies 5 styles. Universal replacement for 33 1/3, 45 and 78 RPM records. Offered in precision made by Killion.

Cat. No. N-004 $4.95 Net

CRYSTAL EARPHONE

Popular with experimenters and hobbyists. Very sensitive. May be used as microphone by removing earplug. Ideal for children and invalids. 3/4" plug.

Cat. No. Q-001 $3.95 Net

PILLOW SPEAKER

Enjoy listening without disturbing others. Excellent sound. With mini phone plug to fit most transistor radios. Dynamic type 8 ohm impedance.

Cat. No. N-001 $2.95 Net

MONOURAL 33/45 PHONO CARTRIDGE

Single screw front mounting. Replacement for many small phonographs. Each $1.95 Net.

MONOURAL 33/45/78 PHONO CARTRIDGE

Universal replacement for most 33 1/3, 45 and 78 RPM records. Complete with micro needle, requires no extra accessories. Offered in precision made by Killion.

Cat. No. N-002 $3.95 Net

STEREO—ALL SPEED PHONOGRAPH CARTRIDGE

Flies 5 styles. Universal replacement for 33 1/3, 45 and 78 RPM records. Complete with micro needle, requires no extra accessories. Offered in precision made by Killion.

Cat. No. N-003 $2.95 Net

ALTERNATING CURRENT steady flow and with inductive load. Offered in precision made by Killion.

Cat. No. Q-001 $3.95 Net
CABINET MOUNTING TYPE. "L" Pad circuit with power handling capacity of 10 watt peak audio. For use with 8 to 16 ohm speakers. Long threaded shaft permits installation in cabinets up to 1" thick. Single hole mounting. Supplied with knob and beautiful gold etched dial plate. Solicer terminals.

Cat. No. 52-175 Fig. A Single "L" Pad $1.95 Net
Cat. No. 52-176 Fig. B Stereo "L" Pad $3.75 Net

WALL MOUNTING TYPE. Same circuit and electrical specification as Cabinet Type shown above, but mounted on elegant brushed gold plate which fits standard electrical outlet box. Can also be mounted flush in any wall opening of 3½" x 2½" Screw terminals.

Cat. No. 52-179 Fig. C Single "L" Pad $2.95 Net
Cat. No. 52-180 Fig. C Stereo "L" Pad $4.98 Net

SMALL POTENTIOMETER TYPE. Designed for use with extension speakers, low-level background music systems, intercoms, etc. Single hole mounting. Fits panels up to 3/16" thick. Supplied with knob and smart looking etched gold die plate 2¼" square. Designed for speakers from 3 to 16 ohm impedance; max. power: 3 watt audio.

Cat. No. 52-184 Fig. D $1.15 Net

SPEAKER "FAKER" CONTROL. A potentiometer control similar to the one listed above, but controls 2 speakers simultaneously. By turning the knob, volume of one speaker increases gradually while diminishing on the second speaker. In center position, both speakers have equal volume.

Cat. No. 52-185 Fig. D $1.15 Net

SPEAKER SWITCH. Designed for use with two speakers such as the one in the equipment, plus a remote or two remotes. 3 position switch connects one or the other or both speakers simultaneously. Supplied with 1/4" square etched gold dial plate, knob, and mounting hardware.

Cat. No. 52-186 Fig. D $3.99 Net

"Y" ADAPTOR. One end phono jack plug; other end 2 phono pin jacks.
Cat. No. Q4-289 $1.05 Net

"Y" ADAPTOR. Phono pin plugs all 3 ends.
Cat. No. Q4-290 $1.05 Net

Std. 3¼" phone plug one end; other end min. (3½ mm) phone jack. Adapts cord with min. phone plug to input designated for a std. 3¼" phone plug.
Cat. No. Q4-252 $.85 Net

"Y" ADAPTOR. One end phono jack plug; other end 2 phono pin jacks.
Cat. No. Q4-288 $.99 Net

TAPE SPICER. Clean, permanent seal. Includes a reservoir of standard (2 conduct.) alkaline batteries. Batteries last for years. Cleans and prepares tape for spicing. Leaves no residue. Can be used on tape recorders, reel-to-reel tape, and all other magnetic tape. Cat. No. Q4-229 $2.25 Net

TAPE RECORDER AND PLAYER MAINTENANCE KIT. Contains everything to clean and lubricate head, guides and capstans. Indispensable for all types of tape recorders. Contains conventional tape recorders, auto and cassette units, video tape recorders and any other equipment using magnetic tape. Contains two (2) bottles of head cleaner and lubricant, cleaning brushes, long-handled cotton swabs, and complete directions for use—all in a convenient clear plastic case.
Cat. No. Q4-237 $6.25 Net

SPEAKER HEAD CLEANER. A special formula cleaner-lubricant which quickly dissolves accumulated dirt, dust, and oil from oxide coated speaker heads. Leaves light film of lubricant to prevent tape squeal. Just dip cotton swab (several included) in cleaner, rub against tape heads, guides, etc., and re­store to flat. Cat. No. Q4-236 $8.50 Net 1 oz.

TAPE PLUG (RCA style).

ENDS DESCRIPTION FEET CAT. NO. NET

C to G Stereo (dual) cable. 3 Q4-241 .65
Phono pin plugs on all 4 ends. (color coded) 6 Q4-242 .65
12 Q4-243 2.25
A to A Phono pin plugs on each end 1½ Q4-245 .65
2 Q4-250 .76
6 Q4-252 .89
12 Q4-253 1.25

To Other end right angle ¼" phone plug 6 Q4-261 .98

To Other end right angle ¼" phone plug 6 Q4-264 1.10

A to M Phono pin plug one end; other end stripped and tinned.

B to R Right angle phono pin plug on each end 6 Q4-249 .93

M to M Phono pin jacks on both ends 6 Q4-285 .93

ENDS DESCRIPTION FEET CAT. NO. NET

D to D Miniature (3½ mm) phone plug both ends 6 Q4-275 .98

D to A Miniature (3½ mm) phone plug one end; other end stripped and tinned.

D to N Miniature (3½ mm) phone plug one end; other end miniature phone jack (extension cord)

ENDS DESCRIPTION FEET CAT. NO. NET

D to D Miniature (3½ mm) phone plug both ends 10 Q4-272 .85

D to A Miniature (3½ mm) phone plug one end; Other end stripped and tinned.

D to N Miniature (3½ mm) phone plug one end; Other end miniature phone jack (extension cord)

E to E Indispensable "Y" ADAPTOR. One end phono pin plug; other end phono jack. 6 Q4-286 .85

E to F Single ¼" phone plug on both ends. 12 Q4-266 1.75

E to D Single ¼" phone plug one end; Other end right angle ¼" phone plug 6 Q4-261 .98

E to A Right angle ¼" phone plug one end; Other end phono pin plug 6 Q4-253 1.10

E to A Single ¼" phone plug on both ends; Other end phono pin plug 6 Q4-264 1.10

E to Q Single ¼" phone plug on both ends.

E to R Single ¼" phone plug one end; Other end insulated alligator clips; Not shielded.

E to O Single ¼" phone plug one end; Other end ¼" phone jack (extension cord) 10 Q4-262 1.75

TAPE PLUG (RCA style). Cat. No. Q4-278 .85

ENDS DESCRIPTION FEET CAT. NO. NET

Std. 1/4" inch phone plug right angle 2 conduct. 6 Q4-278 .85

Std. 1/4" inch phone plug right angle 2 conduct.

WIRE END. Stripped and tinned.

Insulated alligator clips.

ENDS DESCRIPTION FEET CAT. NO. NET

E to D Single ¼" phone plug extension cord; 3-conductor phone plug one end; Other end 3-cond. jack. 20 Q4-278 3.76

E to F Single ¼" phone plug one end; Other end right angle ¼" phone plug 10 Q4-279 1.69

E to G Single ¼" phone plug one end; Other end right angle ¼" phone plug 20 Q4-281 3.69

ENDS DESCRIPTION FEET CAT. NO. NET

WIRE END. Stripped and tinned.
EXPERIMENTER AND LAB SUPPLIES FOR "BREADBOARDING" AND PRINTED CIRCUIT DESIGN

PRINTED CIRCUIT BOARDS

Copper clad phenolic boards for making printed (etched) circuits in the lab, school, or home workshop. The punched (perforated) board has 1/16" holes spaced approx. 3/16".

Cat. No. | Size | Net
--- | --- | ---
J4-604 | 4" x 6" (unpunched) | $5.99
J4-605 | 4 1/2" x 6" (punched) | $9.85
J4-608 | Assortment of 4 unpunched boards | $9.55

PERFORATED PLASTIC CIRCUIT BOARDS

Uncut for prototypes, breadboards, hobby, or science projects. Made of tough milipore phenolic with clean punched holes.

Cat. No. | Size | Net
--- | --- | ---
J4-612 | 3" x 4" | $5.55
J4-614 | 2" x 8" | $6.55
J4-616 | 4" x 8" | $9.99

EXPERIMENTER'S CIRCUIT BOARD KIT

Contains a 3 1/4" x 4" perforated board, 15 terminals (No. J4-636) and 4 rubber feet with mounting screws. Just the thing to build small circuits for hobby and science projects, etc.

Cat. No. J4-660 | $9.95 Net

BREADBOARD TERMINALS (Solderless)

For experimental circuits where quick connecting and disconnecting of components is desirable. Press-fit in perforated circuit boards.

J4-634 Pkg. of 105.99 Net

BREADBOARD BRACKETS

For attaching sockets, switches, controls, meters, jacks, etc., to circuit boards.

J4-640 Pkg. of 102.79 Net
J4-642 Pkg. of 10 1 1/4" $2.25
J4-644 Switch & Control Brackets | 39

CIRCUIT BOARD SUPPORT BRACKETS

To provide a common ground across a circuit board. Push-on type for all standard perforated circuit boards with 0.005" holes. Easy to solder.

J4-636 Pkg. of 305.70 Net
J4-647 7 1/2" | 5.25 Net
J4-632 Pkg. of 2 3.75 Net

BUS STRIP

To provide a common ground across a circuit board. Mounted to the board. Punched to line up with perforations. Made of tinned brass.

J4-641 7 1/2" | 1.25 Net

P.C. LAYOUT STRIPS AND CIRCLES

Etch resist, pressure sensitive strips, 1/16" wide and 3 1/16" circles. For neat professional layout of etched wiring on boards.

J4-620 Ass't. | $1.19 Net

P.C. ETCH SOLUTION

Fast acting ferric chloride solution to dissolve copper strips, etch resist, and etch circuits on printed circuit board. Supplied with small brush attachment to bottle cap.

J4-628 6 oz. | $1.19 Net
J4-630 1/2 lb. | $7.95 Net
J4-631 1/4 lb. | $6.95 Net

SCREW AND NUT ASSORTMENTS

Handy assortment of most used sizes for electronic experiments, workshops, labs, schools, etc. Contains 50 packages of 1/4" - 1/2" x 3/4" long screws with nuts to match.

Cat. No. | Size | Net
--- | --- | ---
J4-833 | 2-56 | $9.95 Net
Cat. No. J4-834 | 4-40 | $9.95 Net
Cat. No. J4-835 | 6-32 | $9.95 Net

SHEET METAL SCREW ASSORTMENT

Popular sizes used in radio, TV and experimental electronics. All are pointed, hardened, and have slotted hex head. Sizes: 4 x 5/8" - 6 x 3/4". Pkg. of 50 pieces.

Cat. No. J4-838 Assortment | $9.95 Net

GROMMET ASSORTMENT

Generous assortment of the four most popular sizes used in electronic assembly. Made of soft, non-hardening vinyl plastic.

Cat. No. J4-841 | $9.95 Net

TERMINAL Lug ASSORTMENT

A selection of solder and crimp type terminals for various wire and screw sizes. One of the handiest items in the lab or workshop.

Cat. No. J4-844 Assortment | $11.12 Net

SPACER ASSORTMENT

Contains various length of metal and insulated spacers to fit No. 4 and 6 screws. Indispensable for construction projects, breadboard and experimental circuits or prototype work.

Cat. No. J4-946 Assortment | $9.95 Net

PRINTED CIRCUIT KIT

A complete assortment of all materials needed for producing really professional printed (etched) circuits — without prior experience or special skill. Kit contains 4 1/4" x 3", 4 1/4" x 2", and 2 1/2" x 3" (3) copper clad boards, etching solution, etch resist lacquer, layout strips and circles, polishing pad, and burning tool. With instruction manual and plastic case which serves as etching tank.

Cat. No. J4-659 | $37.75 Net

EXPERIMENTER'S PRINTED CIRCUIT DESIGN KIT

For experimental circuits. Punched to fit 1/16" holes, except for 1/8" holes when a standard perforation is not possible. The punched holes are slotted to allow for easy punching out of the circuit board.

Cat. No. J4-660 | $5.95 Net

BREADBOARD TERMINALS (Solder Type)

Push-in terminals for all standard perforated circuit boards with 0.005" holes. Made of tinned brass.

J4-636 Pkg. of 305.70 Net
J4-647 7 1/2" | 6.50 Net
J4-632 Pkg. of 2 3.75 Net

ETCH RESIST LACQUER

Fast drying, easy to apply lacquer to draw the circuit on the P.C. Board. Supplied with small brush attachment to bottle cap.

J4-628 6 oz. | $1.19 Net
J4-630 1/2 lb. | $7.95 Net
J4-631 1/4 lb. | $6.95 Net

PRINTED WIRE KIT

Contains all materials needed for producing etched circuits on printed (etched) circuit board, including P.C. etch solution, etch resist lacquer, layout strips and circles, polishing pad, and burning tool. With instruction manual and plastic case which serves as etching tank.

Cat. No. J4-659 | $37.75 Net

REPLACEMENT TV ANTENNA ELEMENTS

Replaces broken element of "built-in" TV antenna. Fits 90% of all sets. Easy to install. Extended length 36".

Cat. No. J4-850 Ass't. | $1.95 Net
Cat. No. U2-323 4 sections | $1.49 Net
Cat. No. U2-322 5 sections | $1.79 Net

TELESCOPING ANTENNA

For radios, science projects, wireless miles, etc. 6 sections extend from 7" to 36". Mounts with a 6-32 screw.

J4-851 Ass't. | $2.25 Net

DELUXE ANTENNA

For walkie talkies or replacement on FM and shortwave radios. 10 sections extend from 6 1/2" to 52", with adaptors to fit 6-32 and 8-32 threads or fastens with 6-32 screw.

J4-851 Ass't. | $2.25 Net

ALL WAVE OUTDOOR ANTENNA KIT

Often preferred to top-of-the-line antennas. Mounts with screws to back or side of set. Polarity in all directions and disappears in housing when not in use.

Cat. No. U2-304 | $2.63 Net

BACK-OF-SET TV ANTENNA

For walkie talkies or replacement on FM and shortwave radios. 10 sections extend from 6 1/2" to 52", with adaptors to fit 6-32 and 8-32 threads or fastens with 6-32 screw.

J4-851 Ass't. | $2.25 Net

PHONE PIN JACKS

Phono jack both ends. Used for connecting cords with phone pin plugs at free ends.

Cat. No. Q4-299 | $.85 Net

Phone pin plug one end; other end std. 1/4" phone jack. Adapts cords with a min. (3 1/8") phone plug to input designed for a phone pin plug.

Cat. No. Q4-297 | $.85 Net

Phone pin plug one end; other end min. (3 1/8") phone jack. Adapts phone pin plug to input designed for a standard phone plug.

Cat. No. Q4-299 | $.85 Net

Min. - (3 1/8")- 1/8" phone plug one end; other end phone pin jack. Adapts cord with phone pin plug to input designed for a mini. phone plug.

Cat. No. Q4-294 | $.85 Net.

ANTENNA KIT

For professional breadboards and hobby or science projects. Contains generous quantities of 1/4" - 1/2" x 3/4" long screws with nuts to match.

Cat. No. | Size | Net
--- | --- | ---
J4-833 | 2-56 | $9.95 Net
Cat. No. J4-834 | 4-40 | $9.95 Net
Cat. No. J4-835 | 6-32 | $9.95 Net

TELESCOPING KIT

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Cat. No. Q4-297 | $.85 Net

Phone pin plug one end; other end min. (3 1/8") phone jack. Adapts phone pin plug to input designed for a mini. phone plug.

Cat. No. Q4-299 | $.85 Net

Min. - (3 1/8")- 1/8" phone plug one end; other end phone pin jack. Adapts cord with phone pin plug to input designed for a mini. phone plug.

Cat. No. Q4-294 | $.85 Net.
**PUSH BUTTON SWITCHES**

**MINIATURE SWITCHES:** Ideal for all electronic or electrical equipment requiring reliable, extra small switches. Rated at 100V-1 amp.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Rating</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>E2-140</td>
<td></td>
<td>$ .99</td>
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</table>

**MOMENTARY CONTACT, SPST: normal-**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Rating</th>
<th>Net</th>
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<tbody>
<tr>
<td>E2-141</td>
<td></td>
<td>$ .94</td>
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</table>

**MOMENTARY CONTACT, SPDT:** for circuits requiring "transfer" or "normally closed" type. Overall length: 11/16"; Diam.: 3/4", 1/4" long.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Rating</th>
<th>Net</th>
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<tbody>
<tr>
<td>E2-142</td>
<td></td>
<td>$ .74</td>
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</tbody>
</table>

**PUSH-ON/PUSH-OFF, SPST:** white plastic button.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Rating</th>
<th>Net</th>
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<tbody>
<tr>
<td>E2-144</td>
<td></td>
<td>$.39</td>
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**KNIFE SWITCHES**

Used for switching antennas, batteries, and other low voltage applications. Low loss, high dielectric insulating base and handle. Plated brass contacts. 

**Cat. No. E2-150**

Single Pole/2 Position

$ .30 Net

**Cat. No. E2-151**

Double Pole/2 Position

$.34 Net

---

**AUTO RADIO NOISE SUPPRESSORS**

Eliminate "static" created by spark plugs and distributor. Very effective on standard AM car radios, and helpful in improving reception on FM, Ham, and CB equipment. For best results, use one distributor suppressor and 4 to 8 spark plug suppressors, depending on number of cylinders.

---

**SPARK PLUG TYPE**

Snaps on top of spark plug. One required for each plug.

<table>
<thead>
<tr>
<th>DISTRIBUTOR TYPE</th>
<th>Rating</th>
<th>Net</th>
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<tbody>
<tr>
<td>E2-510</td>
<td>$.70</td>
<td>$ .99</td>
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</tbody>
</table>

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**TEST LEADS AND PRODS**

One piece molded, unbreakable construction make these among the best available at any price. Replacement test prods are molded of hi-dielectric unbreakable plastic with solderless wire connections and have sturdy, pointed tips.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Rating</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>F2-928</td>
<td>$ .98</td>
<td>$ .98</td>
</tr>
<tr>
<td>F2-940</td>
<td>$.34</td>
<td>$ .34</td>
</tr>
</tbody>
</table>

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**UNIVERSAL EXTENSION SPEAKER**

The perfect speaker for extending your music system throughout your home or office, or to connect to your transistor radio for "big set" sound. Beautiful hand-finished walnut cabinet and matching camouflage plastic grill. 3½' x 6' speaker and good acoustical design assures excellent music and speech reproduction. Surprisingly good stereo sound when used in pairs. Built-in volume control. Screw terminals for wire connections. Brackets for wall mounting. Specifcation: 2 ohms, 3 watt, Size: 12¼ wide, 8½ high, 3¾ deep.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Rating</th>
<th>Net</th>
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<tbody>
<tr>
<td>ZZ-255</td>
<td>$.95</td>
<td>$.95</td>
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**PORTABLE POWER GERMANIUM TRANSISTOR**

T2 case, typ. gain 50, max. oper. Volt 15, max. power 0.2W.

<table>
<thead>
<tr>
<th>Pack of 3</th>
<th>Rating</th>
<th>Net</th>
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</thead>
<tbody>
<tr>
<td>K4-250</td>
<td>.99</td>
<td>.99</td>
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**PNP-GAL. PURPOSE AUDIO/RF GERMANIUM TRANSISTOR**

T0-3 case, typ. gain 60, max oper. Volt 10, max power 0.2W.

<table>
<thead>
<tr>
<th>Pack of 3</th>
<th>Rating</th>
<th>Net</th>
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<tr>
<td>K4-500</td>
<td>.99</td>
<td>.99</td>
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**PNP-HIGH POWER SILICON TRANSISTOR**

T0-3 case, typ. gain 60; max oper. Volt 12; max power 0.25W.

<table>
<thead>
<tr>
<th>Pack of 3</th>
<th>Rating</th>
<th>Net</th>
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<td>K4-501</td>
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**PNP HIGH GAIN AUDIO/RF GERMANIUM TRANSISTOR**

T0-3 case, typ. gain 100; max oper. Volt 15; max power 0.25W.

<table>
<thead>
<tr>
<th>Pack of 3</th>
<th>Rating</th>
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<td>K4-506</td>
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**PNP HIGH GAIN AUDIO/RF SILICON TRANSISTOR**

T0-3 case, typ. gain 100; max oper. Volt 15; max power 0.25W.

<table>
<thead>
<tr>
<th>Pack of 2</th>
<th>Rating</th>
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<tr>
<td>K4-507</td>
<td>.99</td>
<td>.99</td>
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**PNP HIGH GAIN AUDIO/RF GERMANIUM SIGNAL DIODE**

Replacement for 1N4148, 1N4149, 1N4147, 1N4146.

<table>
<thead>
<tr>
<th>Pack of 5</th>
<th>Rating</th>
<th>Net</th>
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<tbody>
<tr>
<td>K4-550</td>
<td>.99</td>
<td>.99</td>
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**PACK OF 2, SILICON RECTIFIERS, 1 AM**

For use in audio and AC power supplies. Pack of 2; silicon, 1A, 600V, 1800W.

<table>
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<tr>
<th>Pack of 2</th>
<th>Rating</th>
<th>Net</th>
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<tbody>
<tr>
<td>K4-555</td>
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**PORTABLE POWER GERMANIUM TRANSISTOR**

T0-3 case, typ. gain 50; max oper. Volt 15, max power 0.2W.

<table>
<thead>
<tr>
<th>Pack of 3</th>
<th>Rating</th>
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<tr>
<td>K4-250</td>
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**PORTABLE POWER SILICON TRANSISTOR**

T0-3 case, typ. gain 60; max oper. Volt 12; max power 0.25W.

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<thead>
<tr>
<th>Pack of 2</th>
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<td>K4-525</td>
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**PORTABLE POWER SILICON TRANSISTOR**

T0-3 case, typ. gain 60; max oper. Volt 12; max power 0.25W.

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**PORTABLE POWER SILICON TRANSISTOR**

T0-3 case, typ. gain 60; max oper. Volt 12; max power 0.25W.

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<th>Pack of 3</th>
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**PORTABLE POWER GERMANIUM SIGNAL DIODE**

Replacement for 1N4148, 1N4149, 1N4147, 1N4146.

<table>
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<th>Pack of 5</th>
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<tr>
<td>K4-550</td>
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**PORTABLE POWER GERMANIUM SIGNAL DIODE**

Replacement for 1N4148, 1N4149, 1N4147, 1N4146.

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<tbody>
<tr>
<td>K4-550</td>
<td>.99</td>
<td>.99</td>
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</table>
COMPACT HI-FI SPEAKER SYSTEM

 Truly Hi-Fi performance in an ultra compact case, beautifully finished cabinet. Powerful woofer of the "acoustic suspension" type coupled with a rear-loaded mid/hi frequency tweeter produces true life-like sound with excellent bass, mid-range and clean highs.

**Specification:**
- Impedance 8 ohms; power handling capacity 10 watts; frequency response 40 to 20,000 Hz; virtually flat from 90 thru 16 kHz.
- Size: 6 1/2" wide, 10 1/2" high, 6 1/2" deep.

Cat. No. 22-265 $16.95 ea. /$32.50 pair

**RF - UHF COAXIAL CONNECTORS**

These high quality connectors and adaptors are precision made of brass or die cast zinc, silver plated for lowest possible contact resistance.

- **No. F3-120** Connector, Type PL 259 $0.85 Net
- **No. F3-121** Reducer, Type US-175, U, adapts RG 58/U cable to standard connectors $0.28 Net
- **No. F3-122** Reducer, Type US-167, U, adapts cables RG-59/U-71/U to US-175 connectors $0.28 Net
- **No. F3-123** Receptacle, Type 30 239 $0.69 Net
- **No. F3-124** Adaptor, for coupling or splicing connectors and cables. 1.15 Net
- **No. F3-125** Adaptor, double male. 1.00 Net

**POWER SUPPLY PLUGS AND JACKS**

These plugs and jacks are used extensively on imported battery operated tape recorders, CB sets, radios, etc., to connect power supplies. Easy to attach or install.

- **No. F3-140** $3.59/Mg. Net
- **No. F3-145** $4.95/ea. Net

**WIDE RANGE 10 WATT EXTENSION SPEAKER**

An ideal speaker for use in public address, paging or music systems in schools, churches, industrial, professional, and commercial enterprises. Also well suited for use in the home in connection with a Hi-Fi or music system. Sturdy, solid wood baffle with a powerful 8" "Twin Cone" speaker, with 6 oz. magnet. Conservatively rated at 10 watts. Excellent frequency response. Built-in volume control. Wall mounting bracket included.

- Specification: 8 ohm — 10 watt
- Size: 12" wide, 10" high, 4 1/2" deep
- 22-256 Blonde $14.90 Net
- 22-257 Oak Walnut $14.90 Net

**CODE PRACTICE SET**

Consists of telegraph key and signal unit. Contains high quality buzzer, battery (penlight cell included), and cable with terminals. Ideal for practice. Adjustable tension and contact spacing. Silver contacts.

Cat. No. J-4820 $3.99 Net

**ROTARY SWITCHES**


- Shunting and non-shunting types.

**MINIATURE SPEAKERS**

Standard small round loudspeakers for use in transistor radios, small tape recorders, walkie talkies, etc. Ideally suited as replacements or in constructing small electronic devices, and for experimental and scientific projects.

**TELEGRAPH KEY**

The perfect key for the "novice" to practice code. Adjustable tension and contact spacing. Silver contacts.

Cat. No. J-4820 $1.19 Net

**MINIATURE SPEAKERS**

These are "professional quality" speakers for practically any application in homes, offices, schools, churches, manufacturing plants, etc. They are ideal as extension speakers for radios, TV, or automobile, for music or public address systems. Their application is very wide. They are used in a single speaker. They have excellent power handling capability, good sensitivity and response flat to high frequencies. Powerfullamp; efficient, lightweight loudspeakers are excellent sound with minimum height requirement.

**DYNAMIC EARPHONES**

Solid, resonance-free construction. Clean functional styling and attractive wood finish will blend with any surrounding from home to industrial application. Beautifully modern, woven plastic, coil type. Watt mounting and 6 inch speaker wires, 10" wide, 10" high, and 8" deep.

**SMALL OVAL & 4" SPEAKERS**

These are ideal speakers for small to medium size electronic and communication equipment such as radios, TV's, phonographs, small sound systems, intercoms, etc. These speakers are used in most applications and are considered to have excellent sound with minimum height requirement.

**SEMICONDUCTOR CROSS REFERENCE**

Items cross referenced are electrolytic and mechanically identical or very close to original, and are possible replacements. However, they are not offered at higher voltages for power than those given for original.

**DYNAMIC EARPHONES**

**IMPEDANCE**

**PLUG**

**CORD LENGTH**

**CAT. NO.**

<table>
<thead>
<tr>
<th>IMPEDANCE</th>
<th>PLUG</th>
<th>CORD LENGTH</th>
<th>CAT. NO.</th>
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<td>$0.99</td>
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<td>3'</td>
<td>04-223</td>
<td>$0.99</td>
</tr>
</tbody>
</table>

| Low       | High  | 3' | 04-223 | $0.99 |

$\text{ imped.} = 4$ to 16 ohm/ $\text{voltage} = 500$ to 3,000 ohm
CHASSIS BOXES AND INSTRUMENT CASES

Ideal for controls, switching circuits, small testers and meters, hobby projects, etc.

PLASTIC INSTRUMENT CASES
Molded of heavy black phenolic with polished surfaces. The finest boxes obtainable is listed and is attached with 4 screws (supplied).

Cat. No. J4-725 2½" x 3½" x 1½" $1.39 Net
Cat. No. J4-727 2½" x 5½" x 1½" $1.59 Net
Cat. No. J4-726 3½" x 6" x 1½" 1.69 Net

ALUMINUM CHASSIS BOXES
Attractive grey hammertone finish. Two-piece snap lock construction for quick assembly. This design permits installation of maximum number of components and makes wiring very easy.

Cat. No. J4-775 2½" x 3½" x 1½" $ .89 Net
Cat. No. J4-776 2½" x 3½" x 1½" $ .89 Net
Cat. No. J4-777 3½" x 5½" x 1½" 1.10 Net
Cat. No. J4-778 4" x 3½" x 1½" 1.25 Net
Cat. No. J4-779 3½" x 4" x 1½" 1.00 Net
Cat. No. J4-780 5" x 3½" x 1½" 1.00 Net
Cat. No. J4-741 5½" x 3½" x 2½" 1.83 Net

FUSE HOLDERS

Panel mounted (front loading) bayonet type. Fits panels up to 5/16" thick. 5/32" mounting hole. Fits all 1/4" x 1 1/4" fuses.

Cat. No. E2-495 $.69 Net

Clip type for all standard 1/4" x 1 1/4" fuses. Padded spring brass clips. Plastic insulated base.

Cat. No. E2-497 $.34 Net

EXPRESS HEADPHONES

Lightweight, double phones with adjustable headband for comfortable fit. Excellent sensitivity and clear sound, especially on voice. Frequency response: 300-3000 Hz.

High impedance model (2000 ohm). Cord is terminated with 3-pin mini tips.

J4-825 $2.95 Net

Low impedance model (8 ohm). Cord has miniature (3/8" mini) phone plug.

J4-826 $2.95 Net

PILOT LIGHT SOCKETS AND ASSEMBLIES

Sockets with universal brackets that can be bent into any shapes for many applications.

No. E2-400 Min. Screw Base (For Lamps C & F) $ .29 Net
No. E2-401 Min. Bayonet Base (For Lamps D & E) .29 Net
No. E2-402 For 110V Candelabra Base Lamps .29 Net

Jewel faceted indicator lamp assembly. Mounts in 7/16" hole. Jewel is set in attractive polished chrome rim. Adjusts for any type of lamp used.

No. E2-403 Min. Bayonet Base (For Lamps D & E) with red lens $ .69 Net
No. E2-404 Same but with green lens 69 Net

Modern square style with translucent plastic lens. Lamp replaceable from front. 11/16" mounting hole. Fits panels to 7/16" thickness.

No. E2-407 Min. Screw Base (For Lamps C & F) with red lens $ .89 Net
No. E2-408 Same but with green lens 89 Net

A Atractive indicator lamp assembly with dome shaped plastic lenses for maximum visibility. Includes one red, green and white lens. Lamps replaceable from front 1/4" mounting hole. Max. panel thickness 5/32".

No. E2-410 Min. Bayonet Base (For Lamps D) $ .89 Net

Miniature assembly for use where space is limited. Supplied with both red and green lenses and type 1768 61 Volt lamp, replaceable from front. Mounts in 3/4" hole. Fits panels to 3/4" thickness.

No. E2-412 Midget Screw Base (For Lamps "G") $ .65 Net

Neon lamp assembly for use on 110-125 volt AC or DC. Incorporates special bright lamp for excellent visibility. With one each red and clear lens.

No. E2-420 Neon Lamp Assembly $ .98 Net

THE AMAZING REED SWITCH

Operates by proximity of a magnet—nothing to touch, hermetically sealed, completely moisture and dust-proof. Used for dozens of hobby and industrial applications such as burglar alarms; toys, limit, light and temperature controls; counters; position indicators, etc. When used with a permanent magnet, a Reed switch operates as a mechanical switch. With a coil, it becomes a sensitive relay.

HOBBYIST REED SWITCH KIT

Consists of standard size switch and Alinco magnet. Switch is rated at 1 amp up to 150V AC/120V DC, but not to exceed 12W Max.

Cat. No. E2-102 $ .99 Net

PRECISION REED SWITCH KIT

Consists of standard size switch, Alinco magnet and nylon bobbin for winding relay coil. Switch is rated at 1A up to 150V DC/250V AC, but not to exceed 25W Max. Sensitivity: 40-60 AT. Activating Time: 2½ milliseconds. Life expectancy: several million cycles.

Cat. No. E2-095 $1.49 Net

MINIATURE SPDT REED SWITCH KIT

Miniature SPDT switch with magnet and bobbin. Rating 2 amp up to 100V AC/DC, but not to exceed 10W Max.

Cat. No. E2-100 $1.95 Net

PREMIUM FUSES

CAT. NO. TYPE NET

AUTO:
A 02-105 SF6EA .21
A 02-106 SF6ED .19
C 02-107 SF6EA .19

QUICK ACTING:
D 02-122 3AG1/6A .36
D 02-124 3AG1/2A .36
D 02-127 3AG1A .23
D 02-132 3AG2A .32
D 02-134 3AG3A .28
D 02-135 3AG4A .28
D 02-136 3AG5A .28
D 02-140 3AG6A .45

SLO-BLO:
E 02-163 3AG1A .79
E 02-164 3AG2A .74
E 02-165 3AG3A .59
E 02-166 3AG4A .39
E 02-168 3AG6A .98

LIMITED CURRENT SLO-BLO (*" TYPE)
F 02-172 3AG7/10A .81

MINIATURE QUICK ACTING (6 mm x 20 mm)*
G 02-185 2.5 .50
H 02-187 1.6 .50
I 02-188 3.1 .50
J 02-189 4.3 .50

* Used on most European equipment
ULTRA SENSITIVE, LAB TYPE
MULTI-TESTER
100,000 ohm/volt; 20 ranges

A precision instrument designed for laboratory use, but still
within the price range of technicians, schools, and electronic
hobbyists. Large two-color mirrored scale for accurate reading.
High internal resistance measures critical voltages without
“loading” the circuit. Expanded ohm scales read from fraction
of one ohm to 20 megohm. HOUSED in an attractive and strong
phenolic case with carrying handle. 7” meter accuracy.

SPECIFICATIONS
Sensitivity: 100,000 ohm/volt—DC
DC Volt: 0.1-2.5-10-50-250-500—1,000
AC Volt: 2.5-10-50-250—1,000
DC Current: 10 A—250 PA—2.5 mA—25 mA
Ohm: 2K—2000—2 MEG—20 MEG
Decibel: —20 to +63 (5 ranges)
Size: 7 1/4” high — 6” wide — 2 1/4” deep

Cat. No. H3-361 $37.60 Net

19 RANGE MULTI-TESTER

A precision instrument with 30,000 ohm per volt
sensitivity. Rugged, easy to use and read, this is
an ideal meter for the lab, the technician, and
the serious hobbyist. Two color scale for easy readabil­
ity. Hand calibration and 1% precision resistors
assure excellent accuracy.

SPECIFICATIONS
Sensitivity: 30 K ohm/volt—DC — 15 K AC
DC Volt: 3—12—60—300—600—1,200
AC Volt: 6—30—120—600—1,200
DC Current: 30 mA — 3 mA — 300 mA
Ohm: 16 K — 160 K — 1.6 MEG — 16 MEG
Decibel: —20 to +37 (2 ranges)
Capacitance: 250 pf to 0.02 µF
Size: 4 1/4” high—3 1/2” wide—1 3/8” deep

Cat. No. H3-355 $19.50 Net

16 RANGE MULTI-TESTER

Small, universal instrument in modern rectangular
styling. Jeweled movement. Easy to read 2-color
dial. An all-around tester, equally useful for portable
or bench use by technicians, experimenters, in
schools, etc.

SPECIFICATIONS
Sensitivity: 20,000 ohm/V DC — 10,000 ohm/V
AC
DC Volt: 0.3—3—12—60—120—300—600
AC Volt: 12—60—120—300—600
DC Current: 60 mA—3 mA—300 mA
Ohm: 5 K—500 K—5 MEG
Decibel: —20 to +37 (2 ranges)
Size: 3 1/4” high—3 1/2” wide—1 3/8” deep

Cat. No. H3-352 $14.95 Net

HANDY POCKET TESTER — 9 RANGES

One of the finest small multi-testers at any price. An
ideal instrument for the technician to carry with
him, but equally useful for the budget minded experi­
menter and hobbyist. With carrying case, range se­
lctor switch, zero adjustment for needle. Built-in
magnet holds meter securely to metal work-bench,
chassis, electrical appliance, automobile fender, etc.
Only 3 1/4” x 2 1/2” x 1 1/4”

SPECIFICATIONS
Sensitivity: 1,000 ohm/volt AC/DC
DC Volt: 1.0—50—250—1,000
AC Volt: 10—250—500
DC Current: 250 mA
Ohm: 100 K (3 K at center scale)

Cat. No. H3-348 $ 8.95 Net

SLIDE SWITCHES

SUB-MINIATURE SLIDE SWITCHES
World’s finest slide switches. Suitable for
all miniaturized equipment. Rated at
3 amp — 50 volt AC.
SPDT TYPE, 7/16” wide x 9/16” mounting
ctrs. Cat. No. E2-104 $ .34 Net
DPDT TYPE, 9/32” wide x 3/16” mounting
ctrs. Cat. No. E2-105 $ .49 Net

Cat. No. E2-110 SPDT $ .22 Net
Cat. No. E2-111 DPDT $.24 Net

STANDARD SLIDE SWITCHES
UL listed. For electrical, electronic
and automotive uses. Rated at 3 amp—125
volt AC. Size: 17/32” wide x 1/4”
mounting ctrs.
Cat. No. E2-110 SPDT $ .22 Net
Cat. No. E2-111 DPDT $.24 Net
Cat. No. E2-114 DPDT $.26 Net

SLIDE SWITCHES

TOGGLE SWITCHES

MINIATURE TOGGLE SWITCHES
Less than half the size of standard toggle
switches. Real space savers. Rated at
125 volt AC — 1/4” mounting hole.
Cat. No. E2-112 SPST $ .09 Net
Cat. No. E2-111 DPDT $ .17 Net

STANDARD TOGGLE SWITCHES
Positive snap action, long-life; complete
with two mounting nuts to fit panels up to
7/16” thick. 15/32” mounting hole.
SPST—6A/125V AC. UL listed.
Cat. No. E2-120 $ .99 Net
SPDT—6A/125V AC. UL listed.
Cat. No. E2-121 $ 1.10 Net
DPDT—6A/125V AC. UL listed.
Cat. No. E2-122 $ 1.39 Net
DPDT Center Off.—6A/125V AC.
Cat. No. E2-124 $ 1.48 Net
SPST—3 amp Light Duty
Cat. No. E2-130 $ .59 Net
DPDT—3 amp Light Duty
Cat. No. E2-133 $ .75 Net

TOGGLE SWITCH ON/OFF PLATE
Nickel plated. Fits all standard toggle switches.
Cat. No. E2-137 Peg. of 5 $ .19 Net

SHANK TOGGLE SWITCHES
Same as above, but with 1” long shank
for mounting in wooden cabinets.
SPST—6A/125V AC. UL listed.
Cat. No. E2-126 $1.29 Net
DPDT—3A/125V AC. UL listed.
Cat. No. E2-128 $2.80 Net

“SNAP-IN” CHIMNEY MOUNT
A deluxe mount. Extra heavy gauge steel construction zinc
chromate coated for maximum corrosion resistance. Simply
“snap” mount into brackets and tighten bolts. Fits masts up to 1”
diam.; chimney clearance: 3”; with two 12’ lengths of galvanized
1/2” width strapping and all necessary hardware.
U2-010-1 1 pair $3.27 Net

“SWING-UP” ROOF MOUNT
Adjusts to any angle. Fits masts up to 1”
diam. For roof or wall mounting. Heavy
plated steel, double protected against cor­
rison. For guy wire and other necessary
hardware. For attaching masts to
walls where overhang or eave does not ex­
cceed 1 1/4”. Heavy steel, zinc plated. Will ac­
cept masts up to 1 1/4” diam.
Cat. No. U2-002-1 $1.12 Net

VENT MOUNT
For attaching masts to plumbing vents up to 2 1/4” diam. Made of heavy steel, zinc
plated to prevent rust. Fits antenna masts up to 1”
diam.
Cat. No. U2-018 $1.47 Net

WALL MOUNT
An economical way to mount antennas to
walls where overhang or eave does not ex­
cceed 2 1/2”. Heavy steel, zinc plated. Will ac­
cept masts up to 2” diam.
Cat. No. U2-001 $ .92 Net

SPECIFICATIONS
Ohm: 100—200—1,000 ohms DC
Volt: 12V—250V—1,000V DC
AC
AC Volt: 0—10—50—100—300—600 DC
DC Current: 10 mA—250mA—1A—10A
Ohm: 10 K—15 K—20 K—50 K—100 K
Decibel: —20 to +30 (5 ranges)
Size: 1 1/2” x 1” high—6” wide—2 1/4” deep

Cat. No. H3-348 $ 8.95 Net

CHIMNEY
“QUICK” MOUNT
A low cost, good quality mount for small to medium
size antennas. Easy to install. Heavy zinc plated and chro­
mate coated to resist cor­
rison. Fits masts up to 1 1/2” diam.; chimney clearance: 3”; with two 12’ lengths of galvanized
1/2” width strapping and all necessary hardware.
U2-000 1 pair $4.90 Net

CAT. No. E2-105 DPDT TYPE. $ .22 Net
Cat. No. E2-106 3 amp $ .29 Net

**SPRING RETURN SLIDE SWITCH**
For use on intercom, etc. UL listed and rated at 6 amp—125 volt AC. Size:
17/32’ wide x 1 1/2” mounting ctrs.
Cat. No. E2-112 DPDT $ .56 Net

**STANDARD SLIDE SWITCHES**
UL listed. For electrical, electronic and
automotive uses. Rated at 3 amp—125
volt AC. Size: 17/32” wide x 1/4”
mounting ctrs.
Cat. No. E2-110 SPDT $ .22 Net
Cat. No. E2-111 DPDT $.24 Net
Cat. No. E2-114 DPDT $.26 Net
Standard Potentiometers
This is the most popular type of control used in radios, TV's and other electronic equipment. Rating is 1/2 Watt max., -2 Watt max. depending on application. Diameter is 1/4". Shaft will fit knobs with equal or smaller screw and is 25/32" long; easily cut to any shorter size.

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Ohm</th>
<th>Taper*</th>
<th>Switch</th>
<th>Net</th>
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* L = Linear   A = Adjustable

COILS, COIL FORMS AND I.F. STRIPS

I.F. AMPLIFIER MODULE
A complete pre-amplified and pre-biased 6550 module incorporates 3 I.F. transformers, 2 transistors, choke, and associated components. Greatly simplifies superhet receiver construction. Gain 55 db; bandwidth 6 kHz; @ 6 dB; power: 8 v (0.1 mA) size 1 1/2" x 1 9/16 x 4".

D1-840 Schematic No. 52 $4.75 Net

I.F. TRANSFORMERS
Universal I.F. Transformer, standard 455 kc type as used in millions of tube type radios. Suitable as universal replacements or use in experimental or construction projects. Sizes: 1 1/8", 1 1/4", 2 1/4", Schematic No. 51.

Cat. No. D1-814 Input Type $1.95 Net
Cat. No. D1-815 Output Type $1.95 Net

MINIATURE I.F. TRANSFORMERS for use as replacements in transistor radios or in building construction and science projects. Outstanding performance for small size. 1/2", 3/4", 1 1/4", 1 1/2", Schematic No. 54.

Cat. No. D1-834 1/2" $0.94
Cat. No. D1-835 3/4" $1.35
Cat. No. D1-836 1 1/4" $1.95
Cat. No. D1-837 1 1/2" $2.79

OSCILLATOR COILS

DIAGONAL CUTTING PLIERS

R.F. COILS

ADJUST. R.F. COILS (CHOKE)
For use in all high frequency circuits requiring a choke. May be replaced from top or bottom. Size: 1/8" dia. 1/4" long Snaphook at 1/4" hole. Schematic No. 55.

Cat. No. Min. uH Max. uH
D1-850 1 2.5 $1.02
D1-851 2 5 $1.27
D1-852 2 10 $1.95
D1-853 3 25 $3.55
D1-854 3 55 $4.94
D1-855 4 100 $9.56
D1-856 6 100 $19.93
D1-857 8 100 $32.94

Soldering Iron Tips

Solder Aid Tool

Wire Stripper

Electronics Hobbyist Soldering and Tool Kit

Electronic Specialty Coils

Solderless Terminals

Heat Shrinkable Tubing

Crimping and Terminal Assortment

Dispenser Pack Holder

Standard Cutting Pliers

CRIMPING AND TERMINAL ASSORTMENT

Crimps solderless terminals of various sizes and colors of "Spade" and "must" for repairs, building projects, etc.

Cat. No. H3-460 Kit of 6 $4.55 Net

VINYL TAPE

Finest electrical insulating tape. UL approved. For electrical insulation, repair, gardening, hose, insulating tools with handy cutting dispenser.

Cat. No. H3-488 1/2" x 20 ft. $0.65 Net

1/2"mH - 200m A R.F. CHOKE
Used in numerous amateur radio circuits. Ceramic core; P.Winding: 34 ohm D. coil, 200mA max. current. 1/4" dia.

Cat. No. D1-850 $9.00 Net

ANTENNA COILS

Basic Antenna Coil of same physical size and schematic, and for same applications as Basic R.F. Coil No. D1-836.

Cat. No. D1-836 $5.95 Net

Universal Adjustable Antenna Coil, used in low to high impedance ranges with applications as a universal replacement, high impedance, high V/I primary, wound with high wire. Adjustable for use with tuning capacitor from 260 to 450 pf. 1/2" dia. 1/4" long Schematic No. 57.

Cat. No. D1-849 $13.55 Net

Ferrite Antenna known also as "Loop-Back" Universal, tunable antenna for use in tube or transistor circuits. Unlimited applications from crystal set to Hi-Fi. Single Universal mounting bracket included. 1/4" dia. 1 1/2" long. Schematic No. 58.

Cat. No. D1-849 $14.00 Net

DIAGONAL CUTTING PLIERS

One of the handiest tools in any shop or workshop. Stainless steel. Precision ground jaws. Chrome plated. Insulated handles.

Cat. No. H3-401 Professional style and quality. With side cutting knife. Diam. 4.5/16". 7 3/8" length. $1.11 Net
Cat. No. H3-402 PG. 2 $0.75 Net

HEX WRENCH KIT

Contains sizes needed for servicing electronic, optical and other small mechanical equipment. Sizes from 0.02 thru 7/32.

Cat. No. H3-436 Kit of 8 $4.55 Net

HEX SOCKET WRENCH KIT

Contains sizes needed for servicing electronic, optical and other small mechanical equipment. Sizes from 0.02 thru 7/32.

Cat. No. H3-438 $3.95 Net

LONGNOSE PLIERS

Professional style and quality. With side cutter and insulated handles. Chrome plated.

Cat. No. H3-414 5" Long $2.25 Net
Cat. No. H3-415 6" Long $2.79 Net

PLUMBING STYLE perfect for winding all types of coils for experimental circuits and hobby and science projects. Excellent for motor wire, wire sets, wave meters, etc. Low loss phenoilic 6 pin base. Diam. 1/4" length: 1 1/4".

Cat. No. D1-841 $1.75 Net
Cat. No. D1-842 One form and one socket $1.79 Net
Cat. No. D1-843 One form only $1.45 Net

SOLDERING IRON TIPS


Cat. No. H3-392 $0.75 Net

SOLDERER ADJUSTABLE Tip fits any soldering iron. Adjusts to wire size from 1/16 thru 7/32. Also Cuts wires.

Cat. No. H3-425 $1.38 Net
CO-AX CABLES
TYPE RG 58/U has an impedance of 52 Ohm and is used for CB and Ham Antenna connections and UHF measuring instrument cables.

TYPE RG 59/U has an impedance of 75 Ohm and is used to connect TV sets to master antenna systems, etc.

AC REPLACEMENT CORD
For radios, TV's, lamps, clocks, and small appliances; 6 ft. long. Cat. No. L3-717 Brown $ .47 Net

GROUNDING PLUG
Sturdy rubber handle "U" Ground Plug. Accommodates wires to 7/16" diam. Includes cable clamp. L3-759 Pkg. of one $ .95 Net

TV "CHEATER" CORD
Cord with special interlock connector, used on most TV sets; 6 ft. long. Cat. No. L3-720 Brown $ .60 Net

ANTENNA WIRE
Stranded 16 gauge copper wire, not insulated. The standard wire for outside antennas. Cat. No. L3-695 50 ft. $1.49 Net

FEMALE CONNECTOR
Attach at end or anywhere along the cord for an additional outlet. No tools, cutting or stripping. Pkg. contains one each Brown and Ivory. L3-755 Pkg. of 2 $ .45 Net

TWIST-ON WIRE CONNECTORS
Soldierless connectors, safe for all electrical wire splicing. Assortment of small and medium sizes for household and electronic wiring. L3-768 Pkg. of 12 $ .25 Net

ELECTRICAL PLUG
Heavy duty type. Fits cords to 5/16" diam. Vinyl plastic. Matches plug No. L3-748 L3-757 Pkg of one $ .49 Net

GROUNDING ADAPTOR
Permits "U" ground 3 prong plugs to be plugged into the regular, older style 2 prong outlets. L3-749 Pkg. of one $ .36 Net

ANTENNA MOUNTING ACCESSORIES
TV WIRE HOLDERS (Stand-off)
- TV WIRE HOLDERS
  - Wood screw type, 3 1/2" long. Insulator fits "flat-line," foam & co-ax cable. U2-060 Pkg. of 4 $ .32 Net
  - Same as above, but 7 3/4" long. U2-064 Pkg. of 3 $ .53 Net
- TV WIRE HOLDERS Snap-on type. Fits on 1 1/4" masts. Universal insulation for all types of cables. U2-062 Pkg. of 2 $ .43 Net
- TV WIRE HOLDER Strap-on mast type. Fits mast up to 2 1/8" diam. with 3/8" stand-off & universal plastic insulator. U2-048 Pkg. of 2 $ .48 Net
- SCREW EYES For fastening antenna guy wires to roofs and walls. 3" long. U2-130 Pkg. of 4 $ .97 Net
- SCREW HOOKS Same as above but heavier, open ended and 4 3/8" long. U2-120 Pkg. of 4 $ .80 Net
- GUY WIRES (Flat line)
  - Same as above but heavier, open ended and 4 3/8" long. U2-120 Pkg. of 4 $ .80 Net
- EYELET ANCHOR
  - Use with flatline, oval or foam cable. Wire piercing washers and wire nuts for easy connection. Use with ground wire No. U4-362. U2-120 $ .98 Net
- ANTI-CAT CLIP
  - For quickly attaching and disconnecting antenna wire to back of set. U2-100 Pkg. of 2 $ .90 Net
- ANNA NTENNA LEAD-IN WIRE (Flat line)
  - High quality, weather resistant cable for normal in-city/suburban installations. Brown type, weather resistant. U4-366 100 ft. $2.26 Net
  - Clear type, for inside use to blend with baseboards, walls & carpets. U4-352 50 ft. $1.35 Net
- ANNA NTENNA TWIN FOAM CABLE
  - Low loss cable for best reception of color & UHF. Plastic "armor" resists weather extremes. Guaranteed life of 10 years. U4-362 50 ft. $2.69 Net
  - U4-364 100 ft. $4.45 Net
- GOLD MAINTENANT WIRE
  - Stranded heavy galvanized steel wire. U2-114 50 ft. $ .82 Net
- ALUMINUM GROUND WIRE
  - Heavy 3/16" soft wire for grounding masts & connecting lightning arrestors. U4-352 50 ft. $1.46 Net
- ANTENNA WALL OUTLET SURFACE
  - Surface mounting; attractive, small design complete with matching plug. Soldierless connections. Ivory color. U4-355 One Set $ .49 Net
- ANTENNA WALL PLATE
  - For single antenna. Complete with plug & hardware. No soldering. Mounted in std. electric outlet box. Ivory color. U4-333 One Set $ .65 Net
- DUAL ANTENNA WALL PLATE
  - For connecting two antennas. Comes with 2 plugs and hardware. U4-334 One Set $ .20 Net
- EXTENSION CORDS
  - All vinyl with molded-on unbreakable plugs and outlets; 9 ft. long. Cat. No. L3-725 Brown $ .79 Net
  - Cat. No. L3-726 Ivory $ .79 Net

3 OUTLET PLUG
Also known as "Cube Tap." Permits 3 cords to be plugged into a single outlet. L3-765 Pkg. of one $ .39 Net

MULTI-SAT TV UHF-FM COUPLER
- Operate 2 sets (TV & FM, or 2 TV's or 2 FM's) from 1 antenna. Coupler mounts anywhere; wall, mast, indoors (mounting bracket included). U2-164 $2.97 Net

LOW LOSS 2-SET COUPLER
- Operate 2 antennas, TV & FM, in same room. Connects single lead wire to both UHF and VHF terminals of set. U2-164 $2.97 Net

LOW-LOSS TV SIGNAL "COMBINER"
- Allows you to couple a UHF and VHF antenna together to a single lead-in, or may be used as a splitter to separate UHF and VHF channels at set. Attaches anywhere; mast, wall, etc. (mounting accessories included). U2-183 $2.55 Net

TV MOUNTING ACCESSORIES
- Mounts in std. electric outlet box. No cutting or trimming. U4-334 One Set $ .65 Net
- Mounts in std. electric outlet box. No cutting or trimming. U4-333 One Set $ .49 Net
- One Set $ .59 Net
MINIATURE - 3 1/2 mm - PHONE PLUGS AND JACKS

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Price</th>
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<tr>
<td>81-11</td>
<td>Plug, shielded (metal) handle, solder lug/clamp</td>
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<td>Plug, plastic handle, solder lug/clip</td>
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<td>81-13</td>
<td>Plug, red plastic handle, solder lug/clip</td>
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<td>81-14</td>
<td>Plug, right-angle, metal handle, solder type</td>
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<td>81-15</td>
<td>Jack, chassis (panel) mounting, universal</td>
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<td>81-16</td>
<td>Jack, cord mount (in-line); plastic handle</td>
<td>$ .70</td>
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PHONO PIN PLUGS AND JACKS (RCA TYPE)

- Standard small plug, solder type
- No. F2-800 Pkg. of 50, 3.90 Net/Pkg.
- No. F2-800 Solderless, right angle plug, black and red plastic handles
- No. F2-801 Pkg. of 25, 5.50 Net/Pkg.
- No. F2-801 Solderless, right angle plug, black and red plastic handles

SOLDERING KIT

Ideal for technicians and kit builders. Contains soldering iron No. H3-380, package of 60/40 rosin core solder and handy solder-sid tool. Tool has fork end for wrapping or removing wires from terminals. Offer also has a metal brush for removing solder from P.C. boards or terminals. Made of stainless steel to which solder will not adhere.

Cat. No. H3-376 $ 3.95 Net

_economical, high quality, dependable meters in outstanding modern styling._

- **Rugged construction** — 2% accuracy
- **Hand calibrated** — linear dial scales
- **D’Arsonval movement with jeweled bearings**
- **Crystal clear plastic coverplate**

**DC CURRENT METERS**

- **Barber No. 1** 0-50 Milliamper $ 4.95 Net
- **Barber No. 2** 0-150 Milliamper $ 4.95 Net
- **Barber No. 3** 0-500 Milliamper $ 4.95 Net
- **Barber No. 4** 0-1000 Milliamper $ 4.95 Net

**AC VOLT TYPES**

- **Barber No. 1** 0-15 Volt $ 4.95 Net
- **Barber No. 2** 0-300 Volt $ 4.95 Net
- **Barber No. 3** 0-15 Volt $ 4.95 Net
- **Barber No. 4** 0-300 Volt $ 4.95 Net

**SPECIAL TYPES**

- **Barber No. 1** 0-15 Volt $ 4.95 Net
- **Barber No. 2** 0-300 Volt $ 4.95 Net

**PHONO PIN PLUGS AND JACKS (RCA TYPE)**

- **No. F2-800** Pkg. of 50, 3.90 Net/Pkg.
- **No. F2-800** Solderless, right angle plug, black and red plastic handles

**SOLDERING KIT**

Ideal for technicians and kit builders. Contains soldering iron No. H3-380, package of 60/40 rosin core solder and handy solder-sid tool. Tool has fork end for wrapping or removing wires from terminals. Offer also has a metal brush for removing solder from P.C. boards or terminals. Made of stainless steel to which solder will not adhere.

Cat. No. H3-376 $ 3.95 Net

**PRECISION PANEL METERS**

**DC CURRENT METERS**

- **Barber No. 1** 0-50 Milliamper $ 7.95 Net
- **Barber No. 2** 0-150 Milliamper $ 4.95 Net
- **Barber No. 3** 0-500 Milliamper $ 4.95 Net
- **Barber No. 4** 0-1000 Milliamper $ 4.95 Net

**DC VOLT TYPES**

- **Barber No. 1** 0-15 Volt $ 4.95 Net
- **Barber No. 2** 0-300 Volt $ 4.95 Net
- **Barber No. 3** 0-15 Volt $ 4.95 Net
- **Barber No. 4** 0-300 Volt $ 4.95 Net

**SPECIAL TYPES**

- **Barber No. 1** 0-15 Volt $ 4.95 Net
- **Barber No. 2** 0-300 Volt $ 4.95 Net

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- **No. F2-800** Solderless, right angle plug, black and red plastic handles

**SOLDERING KIT**

Ideal for technicians and kit builders. Contains soldering iron No. H3-380, package of 60/40 rosin core solder and handy solder-sid tool. Tool has fork end for wrapping or removing wires from terminals. Offer also has a metal brush for removing solder from P.C. boards or terminals. Made of stainless steel to which solder will not adhere.

Cat. No. H3-376 $ 3.95 Net
DELUXE QUALITY
KNOBS AND DIALS

Calectro Knobs are beautifully styled and molded of finest thermo-setting plastic. All have brass insert for 1/4" shafts and set screw. Insert is insulatable from any metal trim to prevent possible shock if used on "hot" chassis.

TUBE SOCKETS

Calectro Tube Sockets are of the solder type and designed for bottom mounting. Three chassis holes are required. Sockets are fastened with No. 2 or No. 4 screws and nuts.

TRANSISTOR SOCKETS

The use of Transistor Sockets is recommended for all experiment circuits as well as hobby and science projects. They make it possible to change transistors easily and avoid the risk of damaging them when soldering.

TABLE OF REACTIONS

<table>
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<tr>
<th>FIG.</th>
<th>TYPE</th>
<th>COLOR</th>
<th>DIAM. ON LENGTH</th>
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<td>E2-706</td>
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<td>7/8&quot;</td>
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<tr>
<td>H</td>
<td>Audio-Mi Bn</td>
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<td>1 1/2&quot;</td>
<td>E2-721</td>
<td>$0.39</td>
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<tr>
<td>I</td>
<td>Audio-Mi Calibrated</td>
<td>Black</td>
<td>1 1/4&quot;</td>
<td>13/16&quot;</td>
<td>E2-723</td>
<td>$0.39</td>
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<tr>
<td>J</td>
<td>Calibrated dial plate, gold finished with numbers 1 thru 10</td>
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<td></td>
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<td>E2-720</td>
<td>$0.49</td>
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<td>K</td>
<td>Same as above, with &quot;Volume&quot; heading</td>
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<td></td>
<td></td>
<td>E2-751</td>
<td>$0.49</td>
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<tr>
<td>L</td>
<td>Vernier dial for precision tuning, mounts on front panel, 8 to 1 turn ratio, Diam. 1&quot;</td>
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<td></td>
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<td>E2-744</td>
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<td>Same as above, but 2&quot; Diam</td>
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<td>E2-745</td>
<td>$1.75</td>
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</table>

PLUGS AND JACKS

A. Banana Plugs; with internal stud for solderless or solder connection. No. E2-840 One each black and red $0.49 Net/pr.

B. Test Tip Plugs; heavy duty, solderless connection. No. E2-846 One each black and red $0.42 Net/pr.

C. F Cloth Tips; solder type. No. E2-872 Package of 6 $0.29 Net/pkg.

D. Banana Jacks; insulated, complete with mounting screws. No. E2-875 One each black and red $0.45 Net/pk.

E. Test Tip Jacks; insulated, fits all standard Test and Phone Tips. No. E2-879 One each black and red $0.37 Net/pr.

F. Combination Jacks; insulated; fits both Banana, Test and Phone Tips. No. E2-883 One each black and red $0.55 Net/pr.

G. Auto Antenna Plug; "Mitorola" type. For auto radio, test, and CB equipment. No. E2-898 $0.39 Net/pkg.

BNDING POSTS AND FAHNETSTOCK CLIPS

BNDING POSTS are ideal for making connections to instruments, educational projects, audio equipment, etc. They can be easily assembled. Clip sizes: small, medium, large. Alligator Clips. Clips are fully mounted and supplied in pairs, one of each red and black.

No. E2-926 Small size $0.74 Net/pk.
No. E2-939 Heavy Duty Type 36 Net/pr.

FAHNETSTOCK CLIPS provide an inexpensive means to make new connections to "hot" circuits and experiments. Project Code No. E2-935 $0.55 Net/pkg.

ALLIGATOR AND BATTERY CLIPS

J. Min. size (1"), with flexible insulation. Solder connection. No. E2-902 One each black and red $0.29 Net/pr.

K. Standard size (2"), with screw for wire attachment with or without solder; also fits Banana Plug. No. E2-904 Package of 2 $0.25 Net/pkg.

L. Medium size (1 1/2"), otherwise same as (J) above. No. E2-906 One each black and red $0.40 Net/pk.

M. Alligator clip adapter. Fits Banana, Test & Phone Tip Plugs. No. E2-910 One each black and red $0.90 Net/pr.

N. Test and battery clips; (2": 8" amp; insulated with screws. No. E2-913 One each black and red $0.45 Net/pr.

Transistor Radio Volume Controls

For replacement in transistor radios or for hobby projects requiring a small, flat control. Has built-in on/off switch and is supplied with 15/16" dia. dial. Control is 3/8" diam. and total depth, including dial, is 7/16".

VARIABLE (TUNING) CAPACITORS

PRECISION MINIATURE TYPES

Exceptionally sturdy, vibration and temperature resistant, miniature capacitors with precision windings, all solid paper in oil, mica, and polypropylene. Excellent for short wave and VHF tuning. .1/4" long.

Net A-219 330 pf (min. 25 pf) $0.14
A-220 100 pf (min. 30 pf) $0.20

BROADCAST RECEIVER TYPES

ALL DIAL ELECTRIC STYLE. Wall hangers, single gang, mogul type for small radios, short-wave sets, etc. Dial calibrated for broadcast band. Only 1" square, 1 1/4" deep.

Net A-219 330 pf (min. 100 pf) $1.60

DUAL GANG: small precision type with trimmers, for RF receivers requiring two ganged 330 pf, type capacitance. Each gang includes a trimmer and a deep x 1 1/2" x 1 1/2". Net A-220 330 pf (min. 100 pf) $2.25

SOLID DIELECTRIC TYPES

SINGLE GANG, with dial. for simple receivers, science projects, etc. Dial calibrated for broadcast band. Only 1" square, 1 1/4" deep.

Net A-219 330 pf (max. 103 pf) $0.99

SINGLE GANG, same as A-212 above, but with 1/4" diam shaft, 1 1/2" long. Without dial.

Net A-220 330 pf (max. 139 pf) $0.99

DUAL GANG: Transistor radio type, complete with 1 1/16" diam. dial. Only 13 11/16" square, 1 1/4" deep. Has trimmeters.

Net A-219 178.72 pf $1.40

TRIMMER CAPACITORS

LOW LOSS CERAMIC BASE. Mica insulation. 1/2" wide by 1/4". (A1-240) or 1/4" (A1-245) long.

A1-240 40 pf (max. 10 min) 0.49 A1-245 60 pf (max. 10 min) 0.59
A1-241 50 pf (max. 10 min) 0.59 A1-246 70 pf (max. 10 min) 0.64
A1-242 60 pf (max. 10 min) 0.74 A1-247 80 pf (max. 10 min) 0.74
A1-243 70 pf (max. 10 min) 0.74 A1-248 90 pf (max. 10 min) 0.74
A1-244 80 pf (max. 10 min) 0.74 A1-249 100 pf (max. 10 min) 0.74

Miniature Potentiometers with Switch

For all applications where a very small control is desirable. Only 11/16" diam. 7/16" deep, including dial. Switch consists of a linear taper, rated at 1/2 Watt. Switch will handle 1 Amp @ 12 Volt or 1/4 Amp @ 48 Volt. Shaft extends 3/4" and will fit knurled or set-screw type knobs.

B1-660 1 K $ .95 B1-661 5 K $ .95 B1-662 10 K $ .95 B1-663 50 K $ .95
B1-664 100 K $ .95 B1-665 1000 K $ .95

Net Cat. No. $ .75 Net Cat. No. $ .75
B1-673 5 K ohm Net B1-674 10 K ohm
**BATTERY HOLDERS**

<table>
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<th>Type</th>
<th>Ca.. No.</th>
<th>Cat. No.</th>
<th>Net</th>
<th>IMPELANCE IN OHMS</th>
<th>DIM. IN INCHES</th>
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<tr>
<td>A</td>
<td>D1-65</td>
<td>5.48</td>
<td>2</td>
<td>0-20000 2000 1/16</td>
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<td>B</td>
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<td>D1-67</td>
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**FLASHLIGHT TYPE:** BATTERY HOLDERS

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**CIGARETTE LIGHTERS:** BATTERY CONNECTORS

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<td>3.7</td>
<td>F3-063</td>
<td>3.7</td>
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<td>F3-064</td>
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<td>F3-065</td>
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**MINIATURE AUDIO TRANSFORMERS**

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**TRANSISTOR DRIVERS**

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**REDEEM THIS COUPON**

Free Handbook—full of ideas, tips and projects, a 50¢ value free with this certificate and the purchase of any Celecatio item from your Celecatio distributor.
Engineering Student Engineers 'Safetwist'

A wall socket safety device that is a blend of sound principles and a stroke of inspiration won the top prize in five judging categories during the competition for student engineer projects at FTU. Three members of the freshman engineering design class—Harry Lo, and Dan Crosby, tied for second place was Kold Start, and, with the aid of his fellow team members, marketed it on a limited basis, "particularly to my part of the product where it should really go out in a big way."

Chad Adair, adding that in the minds of and knowledge, all the projects are capable of acceptance, "perhaps with a few modifications. The ingenuity displayed in all cases is commendable. We were improved."

Remember the famous FTU Blvd. bump? You know, the one at the intersection of Dean Road that has had more than its share of people flying lessons when they crossed it? Well, don't know it was fixed, thanks to repeated appeals to have it fixed that appeared in FTU's What Your Problem column.

Campus Glances

LOST AND FOUND SALE
Need an umbrella? How about a coat? Or contact lens? You can get one of these items, and many others, by going to the Lost and Found Sale next Tuesday in the Village Center basement.

Peddlers Tour

They come from all over the United States to see Florida Tech. Most come with a purpose and a burden.

But, some come peddling bicycles.

The latter respect: A caravan of cyclists from Huntington College, Huntington, Indiana, peddled smoothly into town from the new FTU Administration Building after a leisurely ride from Winter Park out Florida Tech Boulevard toward the new campus.

Mrs. Betty Beaton, wife of the Director of Admissions, Ralph Beaton, was host and tour leader for the group of visiting Hoosier cyclists today.

"It was a common reaction among the college students from Indiana to the stinking new FTU administration building. But, greenfield they were on the expedition to the wilderness of east Orange County, the group was ed — six male and eleven female students. They were accompanied by Miss Pat Cox, Physical Education Instructor at

PANFORD SANFORD — SANFORD

GRAND OPENING — — — — THE STEREO CENTER — — — — — MASTER ELECTRONICS OF FLORIDA 671-4949 Selected components, speaker systems, tape recorders, compact discs and consoles. SEMORAN VILLAGE SHOPPING CENTER Just North of Florida Tech Blvd. on Hwy. 436 PROFESSIONAL SERVICE BY ELECTRONIC SPECIALISTS

SUITE SALE

ALL SUITS IN OUR STORE

2 for $100 Regular $60.00 to $80.00 Sizes 36-46 Reg. & Long Latest Styles — FREE Alterations OPEN TIL 9:00 P.M.

MASTERS CHARGE BANANACARD DISCOVER AMERICAN EXPRESS

Health Sciences

Profs Announced

Dr. Bernard Ostle, Dean of the College of Natural Sciences, has announced the appointment of two new faculty members in the Department of Agricultural Science. They are Miss Marian J. Bilger, and Robert J. Laid, assistant professors.

Miss Bilger holds a B.S. degree in Medical Records Science from St. Louis University, has studied data processing at Temple University, and is a registered medical librarian. Prior to joining FTU, Mrs. Bilger was employed as Medical Record Librarian at West Brook Medical Center in Washington, D.C., and at the U.S. Naval, Mercy, Providence, and Temple University Hospitals, in Philadelphia.

Laid received the B.S. degree from Texas A&M University in 1961, the R.R.P. from Baylor University in 1962, and the M.S. degree in Geographical Library Science from the University of the State of New York at Stony Brook in 1966. He is presently completing the requirements for the Ph.D. degree at the University of Texas Medical Branch in Galveston.

Art Dept. Faculty To Exhibit Works

The faculty of the art department at FTU will be the next to be entitled "Ferramentum" of the American Society of Artists on January 18 through February 7. The exhibit, which was organized by the Virginia Museum of Fine Arts in Richmond, includes new directions in the visual arts created by the faculty's professional and amateur students.

"Siddhartha," OM

Wednesday was an unusual day in Huntingdon College.

Huntington College.

The group drove to Tampa, leaving Huntington, Indiana, January 4 and arriving in Tampa on January 6. Camping at night in convenient camp sites along the way, the group of Indiana cyclists is seeing the Florida State close to the ground.

Following their tour of FTU, the group of cyclists thanked Mrs. Beaton for her hospitality and guide-service and headed east on S.R. 50 toward Tifton and Cape Kennedy. Following a visit to the C.O.W., the group plans on cycling through along the east coast to Homestead from Homestead to Egadgers. From there they plan to pick up their cars and head back to the cold of Indiana.

THE CABOOSE

LIVE ENTERTAINMENT

DRAFT BEER BY THE POUND
Cold Duck on Tap • Stack Sandwiches

17-22 BETWEEN JAI-ALAI AND K-MART

PRICES FOR FOOD
Dirty Play At Kids' Conference

"I was sitting in a meeting when the doctor next to me started crying. Then others started to him, and finally the president of Malcolm X University came into the audience and escorted someone out of the room." He added as the White House Conference on Children, a Mom's Apple Pie meeting of child psychiatrists, sociologists and welfare people from all over the country. The conference had been every 10 years, has never produced any fireworks — everyone is in favor of children. This year was a different ball game.

FBU's Dr. Charles Unkebourn, chairman of the Sociology Dept., attended the Washington D.C. conference last month and reported on the controversial meeting that was fraught with politics, racial attitudes and generally more heat than light.

Delegates arrived at the conference in an angry mood. Charges rang through the hotel corridors that President Nixon was trying to manipulate the session to achieve his goals and that the president of the NAACP leader spoke about the blacks' disfratification with treatment and rights of represented children.

At one point, the president of Malcolm X University reminded him of the situation.

"The younger, more militant members of the conference tried to monopolize some of the sessions," Unkebourn reported. "Women's Lib factions were also there."

One conference, in answer to the volley of words, said: "I'm a woman, a Negro, a mother, and I think we have forgotten our purpose for being here. It is our children, and we have to go home."

The president of Malcolm X University then reminded him that the 76 members of the Florida delegation made some strong suggestions for child welfare legislation involving financed day care centers, more safeguards for children in institutions, children's rights, divorce and custody law, mental health for children, workers, and psychiatric assistance for children.

Unfortunately, the Florida group was told that it wouldn't cut the block of 10 percent young people attending, and they tried to make themselves heard. Nothing too significant came out of the session, except that I think it is obvious to the future the youthful members of the group will have their views heard and even acted upon.

Natural Sciences Sets

Human Affairs Seminar

The College of Natural Sciences will again offer a Science in Human Affairs Seminar that will be open to the public. The morning sessions, from 9 to 9:50, will be held in the SCAUD on the FTU campus. The lectures are scheduled as follows:

For further information contact Dr. Frank Juge, College of Natural Sciences, FTU, 775-5361.

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<td>January 19</td>
<td>The Cytological and Teratogenic Biology of the Developing Embryo</td>
<td>Dr. Charles Carter</td>
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<td>January 26</td>
<td>Genetic Engineering</td>
<td>Dr. David Kuhn</td>
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<td>February 2</td>
<td>The Status of Venereal Disease in Florida</td>
<td>Dr. Norman Prather</td>
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<td>February 9</td>
<td>NASA: Where to Now?</td>
<td>NASA Speaker</td>
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<td>February 16</td>
<td>Interaction of Science and Society</td>
<td>Dr. A. G. Ebert</td>
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<td>March 2</td>
<td>Engineering and Environmental Practices of the Cross Florida Barge Canal</td>
<td>Lt. Col. McDonald</td>
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<td>March 9</td>
<td>A Private Citizen's View of the Future</td>
<td>Mr. W. T. Parlington</td>
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CAMPUS GLANCES

INSANITY BASE??

Seems that the Engineering Building had an unofficial title during Registration Week. Two hours that it wouldn't "catch." It was reported that it read "INSANITY BASE!"

Gert's Gifts

An open thank-you to President Millican from "Gert," some resident student's ear, who was sick just preceding the event. Seems it was only the 24-hour virus. Gert would like to thank President Millican for his interest in her.

FUTURE CLASSIFIEDS

To order classifieds, use the form below. Fill in the boxes allowing 1 box for each letter, space and punctuation mark. Count 2 boxes for capital letters. Don't use hyphens at the end of a line (which contains 35 characters). Use additional forms if more than 6 lines are required. Minimum charge is $1.50 for 6 lines. For additional line add $.25. Multiply the total by the number of weeks the ad is to be run. Mail the ad, with check or money order to: FUTURE Classifieds, FUTU, Florida Technological University, P.O. Box 25,000, Orlando, Fla. 32816. Payments made by cash are at the sender's risk.

DEADLINE 3:00 Wednesday, R. No.

DO NOT ORDER BY PHONE

FUTURE CLASSIFIEDS

For free draft counseling and information on the different options available to veterans, call 401-1000. The Florida Alliance for Veterans' Rights, Dorothea Orem, 20 16th st. S.W., Atlanta, Ga. 30310. The books are free, and available on a first come, first serve basis.

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Prison Tour

Orlando Evening Star (12/7/70) — "An Orlando professor recently traveled to Fort Riley, Kansas, to pass judgment on the Army's Correctional Training Facility — and he came away impressed. In the field of corrections, the Army is quite progressive and actually far beyond its civilian counterparts," said Dr. Charles M. Unkovic, chairman of the sociology department at Florida Technological University, and an authority on penal systems.

The 30-year-old Unkovic, a former lieutenant colonel with the Army Military Police, and also a member of the FTU staff, made the trip with Unkovic. The correctional training facility was established by the Pentagon in 1968 as a pilot program to retain and rehabilitate soldiers who had gone "over the hill" or AWOL.

Unkovic did his doctoral dissertation on first-degree murderers while serving as director of social services at Western State Prison in Pittsburgh, Pennsylvania. During his research he interviewed 140 murderers. He also did a study of the Adult Correctional Institutions throughout the country, through a grant from the U.S. Department of Justice. Overall, he said he found the Army's system a valid one, with a few exceptions... The study also was started to try to help the训练ees with emotional problems, and lawyers help them with overdue bills and domestic difficulties... Winding up the four-day tour of the facility Unkovic sold a group of officers who were awaiting his evaluation of "Dr. Lee and I didn't come to the prison to look at the problems—we only identified them."
Obscene Publications

Florida times-Union (12/12/70) — "The State Board of Regents launched investigations into campus obscenity today in the first such session three years ago in Fayetteville, Arkansas. Seminar coordination at the University of Florida is being done by Dr. C. C. Miller, dean of the College of Education, and Dr. Robert G. Cowgill, assistant dean." The report also implies that only the availability of funds will tell if limited enrollment at all state universities may be required to offset the anticipated depletion of student revenue from Florida, who will be college age degrees over the next twenty years. Some deans in the colleges where few women are employed, as well as the FTU Personnel office, suggested that the small number of applicants was due to few women being interested in the field. Engineering, for example, reported that the college has only women students. However, in the college of Education, two full-time women instructors have been hired — and many women students are enrolled in this college.

According to information from the office of Academic Affairs, pay scale for equally qualified men and women instructors is the same.

Discrimination because of sex is prohibited by the 1964 Civil Rights Act, which also prohibited discrimination against race, color, or religion.

School Sessions Seminar Subject

An in-depth look at the controversial 12-month school year and its effect on students, teachers, and parents will be taken next March when educators and school administrators from across the country meet in Cocoa Beach for the third national seminar on your round education.

A program for the March 24-26 meetings is currently being firmed up by the organizing committee. Sponsors of the seminar, The Florida Department of Education, FTU and the Brevard County School System.

A prime mover of the (forthcoming) seminar is Brevard School Superintendent, Dr. Wayne H. White, who developed the first such session three years ago in Fayetteville, Arkansas. Seminar coordination at FTU are Dr. C. C. Miller, dean of the College of Education, and Dr. Robert G. Cowgill, assistant dean.

The board said approximately 300-400 delegates are expected to attend the three-day seminar, which will offer "software programming" for both the newcomer and oldtimer in year-round education. It will provide a manageable forum on all segments of the educational community," Dean Miller explained.

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**Grapplers To Face FSU Tonite**

**Tech Mat Men Lose To BJC In 38-10 Upset**

The Florida Technological University grapplers took on the wrestlers from Broward Community College in Fort Lauderdale in their first home meet Tuesday and lost 38-10. FTU, sporting new uniforms and a Broward in the campus Village Center for a wrestling-only event of 135.

BC, one of the strongest wrestling teams in the state, pushed its season record to 4-0, defeating FTU previously 40-10, the University of Florida and Tampa.

The Bob Jones took an early lead when scholarship wrestlers Jerry Ringi and Pete Collins took their weight classes, 115 and 125 respectively with pins. Ringi, 27, is a former all-service champ. He pinned FTU's Chris Salamone. Norton lost to Collins.

In the 115 weight class, FTU pulled an upset when Mark Hensley pinned Gary Fritzer, another BC scholarship grappler. Mike Casey won a 3-0 decision over FTU's Scott Campbell in the 142 class.

Dereck Pierce pinned the Knight's Bob Lecture in the 150 class. FTU rallied in the 153 class when Fred Maust pinned Bob Stinson in 1:59. This brought the score to 18-10 in favor of BC.

The Bob Jones swept the last four matches, with over John Snaider, 167, (ten pounds) Charlie Patton, 185; Bruce Fitter, 197; over Ron Hirst; and Bob Johnson took John Rossow in the heavyweight class.

FTU travels to Miami Jan. 22 and 23 for matches with Miami Dade North and South Junior Colleges. Coach Gerry Geraghty summed up the "first year of FTU's wrestling program saying that "experience is our main weakness." He added that the FTU wrestlers had practiced on tumble mats up until the mat arrived at 2 pm Tuesday - six hours before the match.

Although FTU's fledgling wrestling club lost to a highly rated Broward Community College, the Tech grapplers made a tremendous showing, as did the FTU student body that jammed every inch of the Multi-Purpose Room to view the first intercollegiate sporting event ever held on campus. (Photo Jim Lehman.)

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**This Week's Events....**

**BASEBALL**

Saturday, 8 P.M. - Oviedo High

Free Admission To FTU Students

**WRESTLING**

Friday, 8 P.M. - Village Center

Free Admission To FTU Students

This Week's Events....

Saturday, 10 A.M. - NTC Tournament

**Orlando Naval Base**

**BASEBALL**

Monday - Friday Practices, 4 - 6 P.M. - Oviedo Ball Field

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**Future Sports News**

**IM Basketball To Begin Play**

Men's Intramural basketball begins play with the first two games scheduled for next Wednesday at 3:30 pm. Games will be scheduled Monday through Thursday at 3:30 pm with Friday set aside for rainout games. Early games will be played at 3:30, late games at 4:30 pm.

The Intramural Office reminds all captains that the entry deadline for basketball is next Monday at 4 pm. Turn in completed forms to the Intramural Office in the PE Building. The roster must have a minimum of eight players and a maximum of twelve.

There will be a captain's meeting Tuesday at 11 am in PE 203 for the purpose of drawing and rules discussion.

All captains should check to make sure that all participants are eligible, and that their names are on the roster.

---

FTU Coaches rush on court to try and restore order during FTU-Homestead game. Basketball was briefly forgotten during the contest when an over-heated Homestead player swung at a Tech player. The FTU bench cleared, but no more punches were thrown. (Photo by Chu et Seiboll)
Upcoming WIM Slated for Jan.

The Women's Intramural Program at FTU will pay you if you will call to lose those extra holiday pounds and meet new friends at the same time.

On tap for women during the winter quarter are table tennis, basketball, and tennis, both singles and doubles. Coed activities include football and bowling.

The table tennis tournament will be held starting February 1 on the basis of singles play and single-elimination. The deadline entry will be Monday, January 25, at 5:00 p.m. Drawings for the tournament are slated for Tuesday, January 26, at 11:00 a.m. in the Physical Education Building, room 305.

If you are not athletic-minded or familiar with the upcoming sports, the Women's Intramural Program will acquaint you with them. A clinic is held prior to the beginning of each program in order to teach the required skills of the sports to everyone.

The Women's Intramural Advisory Council was organized to represent the girls and their needs in the intramural field. The council consists of Dormitory Representative Karen McCaw, Panhellenic Representative Cathy Foreman, Committee Representative Linda Gabriel, and the Women's Intramural Student Coordinator Dodie Gilson. If you have any questions or need assistance, contact Min Gilson (Ext. 4571).

The council reminds girls to keep in touch with the intramural bulletin for entry sheets and deadlines of the sport. Turn in entry forms to the Intramural Office in the P.E. Building. For further information, contact the Intramural Office or call extension 2106.

Basketball

(Continued from Preceding Page)

Junior Don Mathis leads the roundtables with 129 rebounds, followed by Flanagan with 112. Mathis averages 8.6, Flanagan 7.6.

Mathis at Fla. Bible and Lalone at N.Y. Maritime are two of the all-expenses paid trips offered through the Intramural Program. Mathis and Lalone will have an intramural game played at the Oviedo High Gym before last week's FTU-Homestead AFB game. For results, see the DM section.

Flag Football Proposed

The FTU Sports Department has presented a proposal for a co-club football team at FTU to President Charles Milligan. In the process the FTU Sports Department has discovered that it was not using the correct procedure for a proposal submission. The correct method is to submit the proposal to Dr. Frank Rohrer, Chairman of the Department of Physical Education, who would submit it to Dr. Calvin C. Miller, Dean of the College of Education, who would present it to the President of FTU.

Sports Editor Dennis Marks said that Dr. Rohrer told him to give the proposal directly to the President. Dean Miller said that the mistake is minor and will, in no way, influence decisions on the possibility of a co-club football team at FTU.

President Milligan, Dean Miller, and Dr. Rohrer are scheduled to meet on the subject before next Wednesday. After the meeting the decision will be in the hands of the President.

The FTU proposal is as follows:

Proposal to the President: FTU FLAG-FOOTBALL TEAM

FTU presently has the facilities to field a student-originated flag football team which will represent FTU, enter a season schedule with area schools, be student-coached, and use existing facilities; this team will not require funding from the Intramural Organization, etc.

The concept of this team is three-fold: (1) to promote student spirit by giving the student body a football team; (2) to provide the nucleus for a future tackle-football team at FTU (with the proper scheduling and prior approval, etc.); (3) to help FTU gain recognition among other schools and promote inter-school cooperation, especially with the junior college, a major source of FTU incoming students. FTU can take the initiative and ask the other schools to join with it in forming an "I-4 League." The money coming behind having area schools participate is that this will eliminate the need for funds to bus or fly the teams to schools for away games.

The facilities this team would need are almost already available for flag football. The teams in the Intramural program can be utilized and the two regulation flag football fields are satisfactory. Practices in the Intramural program would not interfere with the student body's intramural program. Ken Jenkins, Intramural program director, expressed his approval to the development of a FTU flag football team. "Although there would be no problem in the idea of a football club it requires funds. Under our program, there would have to be administrative control exercised over the development of the program, finances, supervising, officiating, etc."

Dr. Rohrer also noted that the headquarters it would create in personnel, funds, and money. But he is in favor of a high level skill opportunity for the FTU student body.

The team would play under the National Flag-Football Rules, with the novella penalty stipulation inserted. The would include the use of an expensive football equipment: pads, helmets, uniforms, etc. The teams would be outfitted in jerseys or shorts of their own choosing on their own cost. The rules are successfully used in the Orlando Recreation Department's "Campus Cup" series, according to Neil Perkins, Director of Athletics for the city of Orlando. "All the schools could adopt the co-operative rules with no problems, very easy. The only rule is that referees are presently paid about $4 per game, and ORD refs would be available for 'I-4 League' games with the proper scheduling and prior arrangements," said Perkins.

In the 1970 "Campus Cup," FTU's All-Stars captured the championship defeating Valencia Junior College 69-18 and Seminole Junior College 45-18. The FTU intramural All-Star team could be the nucleus for the club football team.

FTU has the students, the field, the rules, and the game. The sports staff of the FTU team would like to propose that Dr. Milligan as president of the university endorse this idea and take the steps necessary to open this opportunity to the FTU student body.

ACURIT Teams Compete in Match

FTU has been invited to participate in the 1970-71 Association of Collegiate Unions International Regional Games Tournament. All events will be hosted by the J. Wayne Reitz Union of the FTU. The Regional Games Tournament will be held on February 11-13, Room, board, and transportation expenses for participants will be paid by the Village Center.

FTU will be sending a table of three doubles players to represent the tennis and one female table tennis participants, and, in turn, is in forming a table tennis team and one female table tennis participant. The winners of the Regional Games earn the chance to participate in one of the all-expenses paid trips to the United Nations' International Tournaments.

Tournaments are open to the regional participants from FTU will be as follows: January 20-21, Bridge; January 27-28, Table Tennis; February 8, February 10-11, Chess. These players are advised to bring their own chess sets with folding chess tables with them. Just fill out the blank below and drop in one of the registration boxes located in the lobby of the Library or the Snack Bar. Entry blanks will be available at the exact time and location of their event, by telephone or mail.

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**FTU Lifts Cover On Barebow Champ**

The Southeastern Barebow Champion, Collegiate Gentlemen has been named for 1970. It is FTU's Tom Worthington.

FTU senior Worthington fired 1148 points to take the Men's Barebow division of the Southeastern Collegiate Championships held in DeLand at Stetson University.

Worthington compiled rounds of 566 and 582 for his total while second placer Louis Do live of Florida State compiled rounds of 524 and 556 for a total of 1080. There were nine schools and 43 students registered from the Southeastern region.

Worthington did not come close to breaking the Men's Barebow records, though. The highest round was a 674 by Indian River Junior College's Paul Cornell.

Stetson captured the men's Barebow and the Mixed team, with Worthington compiling rounds of 269 and 297 for a total of 566, and supplementing this with a 556 in the Mixed team. Though the highest round was a 566 by Florida Southern College, the ATO Barebow division had nine schools represented.

Within the state of Florida there are presently 12 colleges and junior colleges sending individuals to regional and state tourneys. This spring, Florida state titles will be up for grabs in competition at the University of Florida.

On April 24, Florida will host the 14-school "Intercollegiate Championships," an amateur-only event consisting of Men's Barebow, one-American and one-Modified Barebow, Men's and Women's teams, Women's Barebow.

Southern College presently have 43 students registered from the Florida area挑 up teams, independents, GDI, and also ATO's Alpha Tau Omega's basketball team.

Before the game, Royal Crown Cola's Worthington compiled rounds of 43 students registered from the Florida area挑 up teams, independents, GDI, and also ATO's Alpha Tau Omega's basketball team.

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