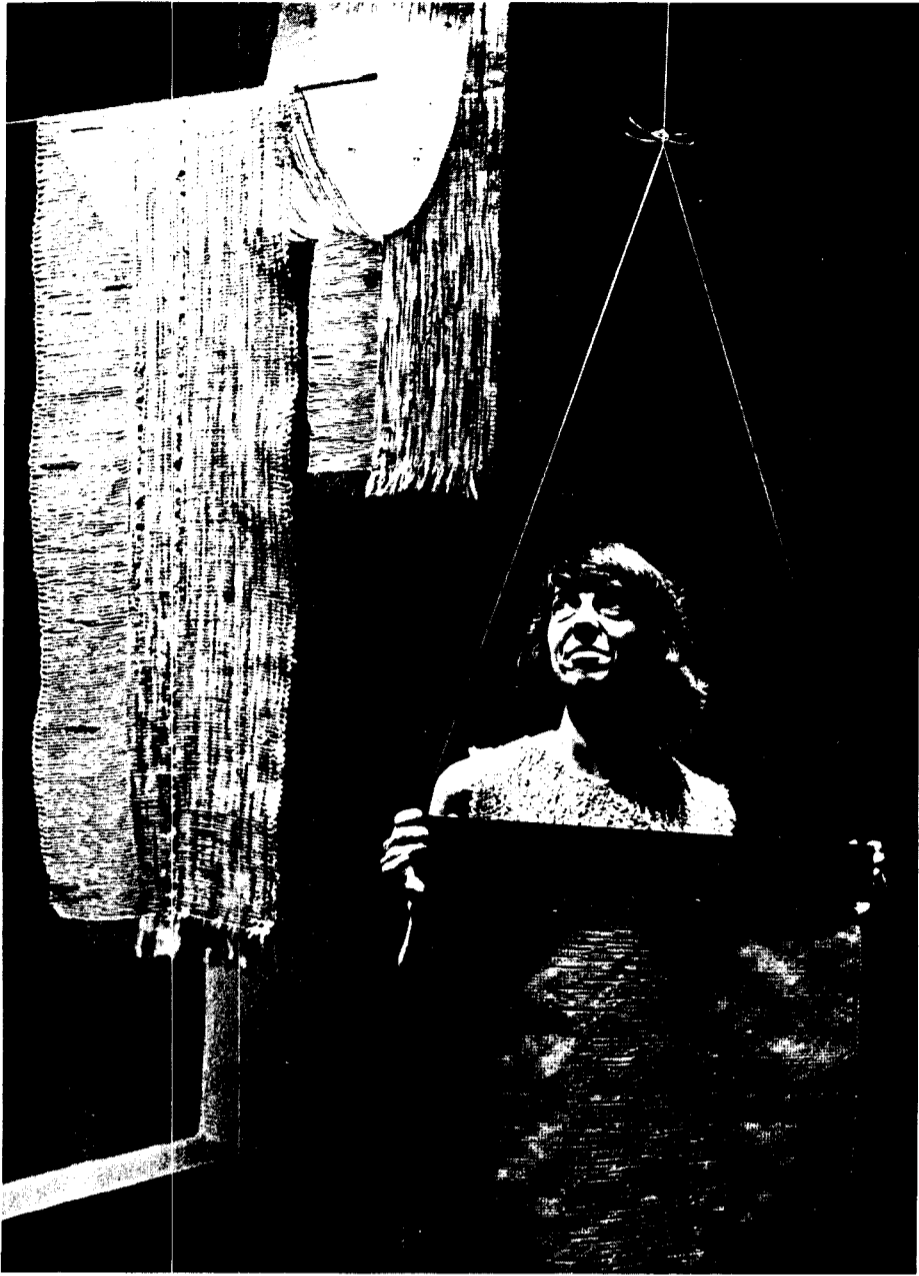




Working At The Weaver's Trade



Thelma Becherer, Medical Department, works during the week as a dietician at the Medical Research Center. Evenings and weekends she works at a loom in her home-studio to produce some of the most exquisite fabrics of unusual materials. Mrs. Becherer is one of the craftsmen exhibiting at the Annual BERA Art Exhibition currently on display at the Conference Rooms adjacent to Berkner Hall. —Humphrey

Engineering In Nature At Naval Reserve Lecture

"Birds, Bats, and Bionics," will be the title of a film to be shown during the Naval Reserve meeting at the Brookhaven Center on Wednesday, August 19.

The film describes some attributes of animals which embody engineering design principles copied by man. Included are man-made echo locators for the blind, computers capable of learning from experience, and robots equipped with artificial neurons to guide their actions. Dr. Joel O'Connor of the Biology Department will discuss the half-hour film and describe some additional engineering principles found in nature.

All Brookhaven staff members, their families and guests as well as summer visitors to the Laboratory are invited to join in this meeting and discussion.

International Symposium At UN On Nuclear Power

The first session of a five-day international symposium devoted to the environmental aspects of nuclear power stations, was opened on Monday with a welcoming address by AEC Chairman Glenn T. Seaborg.

The symposium is being sponsored by the International Atomic Energy Agency, in cooperation with the USAEC. All of the sessions are being held in the General Assembly Hall at United Nations Headquarters.

More than 250 delegates from 21 countries and 7 international organizations are attending the symposium at which 55 technical papers will be presented.

Dr. Victor Bond, Associate Director of BNL, presented a paper on Tuesday on "Evaluation of Potential Hazards from Tritium Water." After the presentation of Dr. Bond's paper there was a panel discussion on standards for the control of effluents.

Theatre Group News

Additional try-out dates for *Lion In Winter* are now announced. Try-outs will be held in the theatre at 8 p.m. during the last two weeks in August on the 17th, 19th and 20th as well as the 24th, 26th, and 27th.

Scripts may be obtained by calling Pat Towey on Ext. 602. Those who are interested in working backstage or helping in some other way, can also call Pat and let her know.

Remember the dates: August 17, 19, 20, 24, 26, and 27. At the Theatre - 8 p.m.

Radio Club Meets

The regular monthly meeting of the Radio Club will be held at 8 p.m. on Friday, August 14 at the Recreation Building in the Apartment Area.

Craft Show Opens To Popular Acclaim

The Fine Crafts, BERA's current exhibition, opened on Monday evening in the Conference Center to a large and enthusiastic crowd of Brookhaven personnel, family, friends, artists and craftsmen. The crowd's enthusiasm was well founded, for this show, devoted to the work of six prominent American craftsmen, is a beauty. Including jewelry, weaving, fabric collage, and ceramics, the exhibition gives eloquent testimony to the pure aesthetic pleasures that can be derived from crafts when they are exercised with sufficient skill and artistic imagination, that is, when the crafts become The Fine Crafts.

Part of the fascination of the classical crafts is the ancient heritage of which they are a part. Pottery and weaving clearly stretch back to purely utilitarian beginnings. To a degree this can also be said of jewelry-making, some of whose origins are rooted in personal objects of mythical significance or magical efficacy. It is interesting, in fact, that some atavistic reflections of these ancient origins appear in some of Glenda Arentzen's pieces in this show. But surely the purely utilitarian character of each of these crafts existed only at the very point of origin; once man had learned to make a pot, he soon wanted to give his pots pleasing shapes or add decorations to them. It is still this combination of the useful and the beautiful that is a basic satisfaction in contemporary crafts - for example, in the elegant classical vessels that Karen Karnes contributes to this show.

Another fascination of The Fine Crafts is its demonstration of the ability of the gifted craftsman to transmute lead into gold, for



A group of young people admire a weaving by Thelma Becherer.

that particular transformation is surely no more remarkable than the transformation of clay and a few pigments into vessels of great aesthetic appeal or, in the case of Jolyon Hofsted, sculptures of great originality and wit. Nor is it more remarkable than the weaving together by Thelma Becherer of wool or nylon with sea grass, seed pods, pine needles or any of the "common" things of nature into works of most uncommon beauty. One tends to forget, when looking at Wanda Patterson's handsome fabric collages or Glenda Arentzen's (continued on page 3)

Photographer Cited

Robert F. Smith of Photography, was awarded the Charles Foster Memorial Citation for Color Photomicrography at the National Conference of Biological Communicators, meeting in Houston, Texas on August 9.

The citation was for a Nomarski interference photomicrograph of cells in mitosis. The cells in the award winning picture were from *Tradescantia* plants which had been flown in space on the Biosatellite as part of a cooperative research program between the BNL Biology Department and NASA.

Smith was given permanent possession of a bronze plaque in recognition of the fact that this is the fourth consecutive time that he has won this prize in a competition which included several hundred contestants from throughout the world.

Rental Cars

Available On Site

Rental cars are available from the on-site Mobil Service Station. The cars, four-door compact sedans with automatic transmissions, may be rented by the day, week or month at the following rates:

\$7/day + \$.10/mile, free gas

\$45/week + \$.10/mile, free gas

\$175/month + \$.03/mile supply own gas

Mobil, Diners Club and American Express credit cards are honored. Other models may be obtained by advance arrangement.

The Mobil Service Station is open from 8 a.m. until 6 p.m. Monday through Friday, and from 8 a.m. until 1 p.m. on Saturday. Therefore, cars can neither be obtained nor returned on Sunday.

For additional information, please call the Mobil Service Station on Ext. 2247.

New AEC - Brookhaven Staff Members



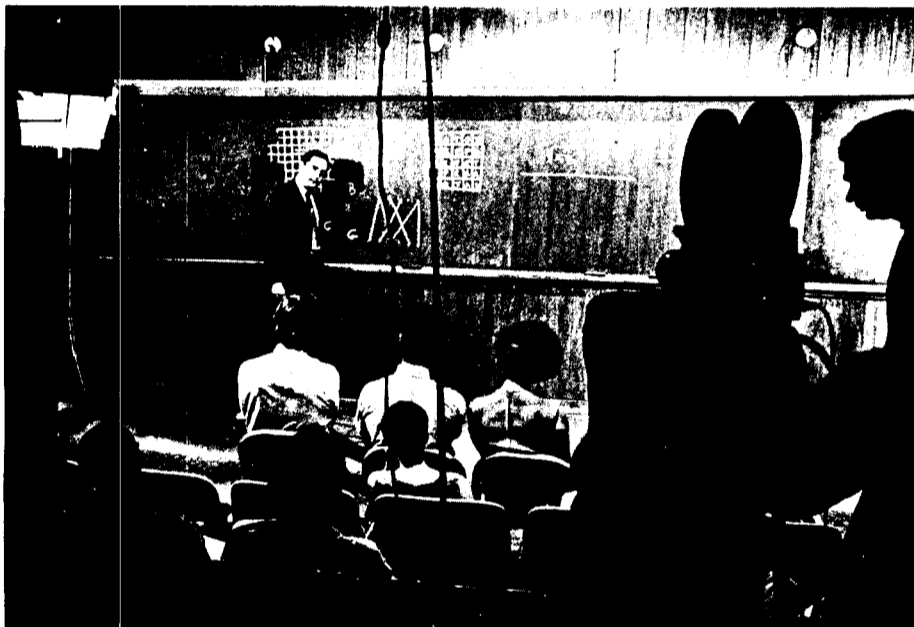
Three new staff members of the Brookhaven Area Office of the AEC posed for this picture shortly after reporting to Brookhaven officially for the first time on Monday. They are (left to right) Sydney Saxon, Chief of the Administrative Branch; Lyman Bryan, Manager of the Brookhaven Area Office; and Don Carden, Chief of the Engineering and Construction Branch.

Seminar Room Dedication



Mrs. Hartland Snyder receives from Dr. Ernest Courant a memento of the occasion of the dedication of the seminar room at the AGS to her late husband. Hartland Snyder was, with Dr. Courant and Dr. M. Stanley Livingston, co-inventor of alternating-gradient focusing. The dedication ceremonies took place last Friday in Berkner Hall during the celebration of the Tenth Anniversary of Beam Day at the AGS.

Mathematics Lecturer



Dr. Gian-Carlo Rota, noted Professor of Mathematics at MIT and a visiting mathematician in BNL's Applied Mathematics Department lectured on the Marriage Theorem to a limited audience here at BNL on August 7. Professor Rota's lecture was filmed for the American Mathematical Association for use as an educational tool throughout the country. The current series of lectures given by Professor Rota will be devoted to Combinatorial Analysis, Numerical Analysis, and the Calculus of Finite Differences.



Dr. Yoshio Shimamoto, Chairman of the Applied Mathematics Department and Professor Gian-Carlo Rota talk during a break in the lecture.

The Lion In Winter

Do you ever quarrel with your wife? Do you sometimes feel that your domestic life is a battlefield, that you do not understand your children, who seem intent on tearing down everything that you stand for? Do arguments with your neighbors shatter the hard earned peace of your leisure hours? Man, if you think you got problems, you should meet the Plantagenets!

"The Lion In Winter," a comedy by James Goldman, which will be the Theatre Group's presentation this Fall, is the story of a day in the life of Henry Plantagenet, his vitriolic wife and the three adorable sons who can hardly wait for their grey-haired daddy to move over so that they can get their greedy little hands on the family business . . . which happens to be

Arrivals & Departures

Arrivals

- Audrey L. Blake Physics
- Edward J. Brosnan Physics
- Turkan E. Kumbaraci Applied Math.
- Douglas H. McLean Medical

Departures

- Robert B. Carter P.E.P.
- Michael Cruz Physics
- Sandra L. Dickerson Physics
- David R. Papa Staff Services
- William H. Sims Physics
- Kathleen M. Smith Physics

In Memoriam

Harry Martin, who has been employed by Brookhaven National Laboratory since 3-21-47 in the Security and Plant Protection Division, died 8-6-70

running an Empire, since daddy is known to historians as Henry II, King of England, and a large part of France. If you think the fact that the dateline on the story is 1183 suggests a mannered little drama, as dull and dry as a 6th grade history lesson, you underate Mr. Goldman, and the Plantagenets too. If you enjoyed "Who's Afraid of Virginia Wolfe?" you will love "The Lion In Winter."

Tryouts will be held at the Theatre on August 17, 19, 20, 24, 26 and 27. If you want to learn a little sophisticated infighting, we suggest you come down. And if you want to have a fun-filled fall, and meet some great people, call Producer Bruce Martin, Ext. 2929, or Business Manager Pat Towey, Ext. 602, and offer to help on scenery, costumes, publicity or box office.

AEC Employee Retires

The Brookhaven Area Office of the U.S. Atomic Energy Commission at Upton, New York, has announced the retirement of Gordon E. Stubbings on July 31, 1970 after completion of over 27 years of service with the Federal Government.

Mr. Stubbings' civilian career with the Government began in 1946 with the U.S. Department of Labor. In 1947 he joined the staff of the Atomic Energy Commission's Brookhaven office as an engineer and held successively responsible positions, including Director of the Operations Division for nine years, and more recently as Acting Area Manager with full responsibility for the administration of the AEC's contract with Associated Universities, Inc. for operation of Brookhaven National Laboratory. During his years at Brookhaven, Mr. Stubbings received two awards for high quality performance.

During World War II he served in the European Theatre with the U.S. Army Corps of Engineers for 3½ years, attaining the rank of Captain.



Mr. Stubbings holds a Bachelor of Science Degree in Mechanical Engineering from Clarkson College of Technology. He resides at River Road, Calverton, New York, with his wife Sarah.

Grab Your Partner!

Mixed League

This year the BNL Bowling Committee, heeding several requests, is going to sponsor a Mixed Bowling League if we receive sufficient entries. Arrangements have been made to put a league or leagues in Patchogue on Thursday or Friday or at Port Jefferson on Friday. Other days and times will be considered if the interest is indicated. However, you must sign up now. It only takes two couples to form a team; you may add two substitutes. The fee is \$5 per bowler. If you can't form a team, call Ext. 2808 and enter the Players' Pool and you will be placed on a team. Husbands, wives, girl and boy friends are all welcome. Half the members of your team must be BNL employees. Deadline is August 14.

Men's and Ladies' Leagues

We still have room for teams in the Patchogue lanes on Wednesdays, and Port Jefferson lanes on Tuesdays. Round up your team and we'll fit you in.

If you'd like to bowl on another night, fill out an application and we'll try to arrange it.

Deadline: For last year's priority - August 19. For all Men's and Ladies' Leagues - August 21.

Master Welder Retires



Joseph Nocar, Master Welder in the Central Shops Division since July, 1952, retired on July 31. Although his home base was in building T-208, he worked in many areas of the Lab. His most recent big job was in the repair of the heat exchangers at the High Flux Beam Reactor. Mr. Nocar and his wife live in Bohemia.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

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Telephone 516 924-6262 Ext. 7238

NORBERT J. DERNBACH
Public Relations Officer

Movie Tonight

Thursday, Aug. 13 - 8:30 p.m. - Berkner Hall

Still A Brother

Inside The Negro Middle Class

This is a quantitative and qualitative appraisal of the Afro-American segment of our society made by National Educational Television. It explores the intricacies of this complex group, its participation and involvement in crises such as identity, aspiration, nationalism, religion, personal and professional expression. It is produced and casted by Negroes: Ossie Davis, narrator; John H. Johnson, president of Johnson Publishing Co. (publishers of *Ebony*, black counterpart to *Life* magazine); Robert Johnson, editor of *Jet*; Julian Bond, legislator; Bayard Rustin, and others are in the cast. The film is divided into three parts: (1) social and business life of the black middle class, (2) its reaction to and involvement in the civil rights struggle, particularly with respect to lower class brothers and white racism, and (3) newer mental revolution signalling a separatist movement - a withdrawal from the mainstream of American society.

Short:

Confessions of a Black Mother Succuba

"Violence, sex, and TV commercials are the recurrent themes of this disconcerting movie." There is black humor which is hip and not for timid or childlike souls.

Hospitality News

The next Hospitality Committee coffee meeting will be held on Monday, August 17, from 10 a.m. until noon in the Apartment Area Recreation Building.

Everyone is welcome. Bring the children. Don't miss this opportunity to meet many of our summer visitors who will be with us for such a short time.

Arrivals & Departures

Geoffrey Hind (Biology) was recently in London, England, where he presented a paper entitled "Electron donor reactions with photosystem II" at the Biochemistry of Photosynthesis Meeting at King's College, and did collaborative research with Dr. D.A. Walker, Imperial College, on electron transport in photosynthesis.

F.P. Cowan (I & HP) recently attended the annual meeting of the International Commission on Radiation Units and Measurements at Geneva, Switzerland.

The following members of the Biology Department presented papers at the IX International Congress of Radiation Research held in Evian, France:

Paul J. Bottino - "Comparison of the effects of simulated fallout decay and constant exposure rate treatments on the survival and yield of agricultural crops."

Howard J. Curtis - "Effect of age on chowmose stability in bone marrow."

Mortimer M. Elkind - "Repair mechanisms related to DNA integrity and survival in mammalian cells."

Crafts Show

(Continued)

zen's elegant jewelry that their richness did not preexist somewhere. But of course it didn't; in each case it is the craftsman's two hands that convert the base into the precious. And, from this standpoint, pure gold is a base metal compared with gold that has been transmuted by Irena Brynner into her brilliant rings and necklaces.

It should be added that The Fine Arts has been mounted with great style and effectiveness in the meeting rooms of the Conference Center next to Berkner Hall. The show will be at Brookhaven until August 21 and will be open on weekdays between 11 a.m. and 5 p.m. It will also be open on the evenings of August 13 and 20 before the movie, from 6 to 8 p.m.



Glenda Arentzen models some of the jewelry she has made and is exhibiting at the Craft Show.



One of the witty works of art produced by Jolyon Hofsted is examined by Sudhir Mendiratta, DAS.



Elke Martin, summer visitor and a potter herself, peruses work exhibited by Karen Karnes.

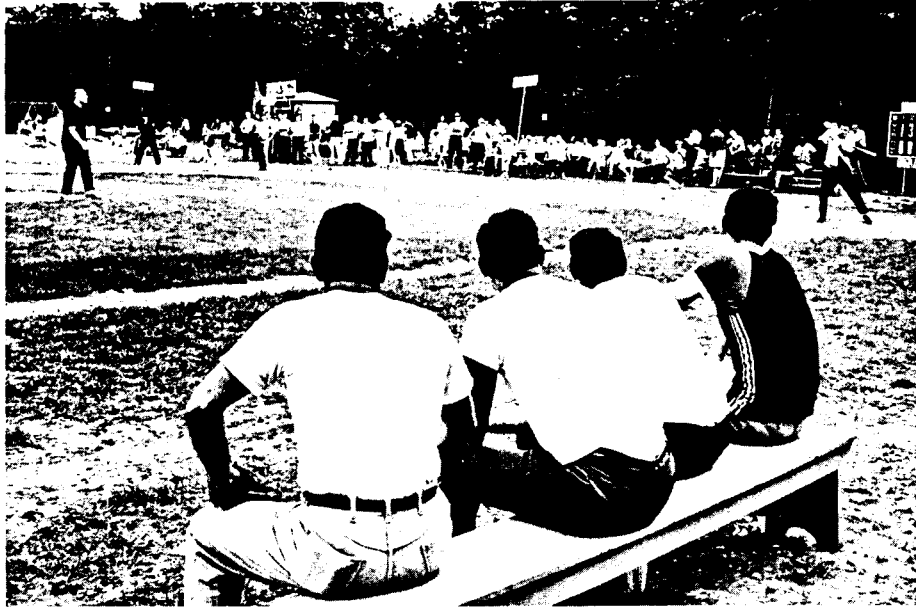
Positions Available

The Brookhaven Bulletin each week will list job openings which have come to our attention and may be of interest to Lab employees. Each listing will be repeated (if still available) only once.

- TECHNICIAN - Physics Department.
- REGISTERED NURSES - Medical Department.
- EXPERIMENTAL WELDER (1) - Central Shops. Application deadline: August 20, 1970.
- AUTO-TRUCK MECHANIC (1) - Staff Services. Application deadline: August 20, 1970.
- STATIONARY ENGINEER, SR. (1) - Plant Eng. & Plan. Application deadline: August 20, 1970.

For further information, please contact Employment Supervisor Ext. 2109 or 2513.

Don't Forget To Sign Up!



BNL Softball Day will be held on Tuesday, August 25. Hot dogs, beer, soda and ice cream will be served. All ball players and their families are invited. Tickets must be obtained from team captains. The fun starts at 5 p.m. with a performance by the famous Bayport Fife and Drum Corps. The games will begin at 5:30 p.m. In case of rain . . . Wednesday, August 26, same time same place!

Softball

by Jack Brennan

National League
 Pop Ups 18 Metallurgy 5
 Homeruns J. Hanson of Pop-Ups (2).
 Homeruns 29 Rat Pack 6
 Homeruns B. James of Deadwoods.
 Phoubars 20 Bubble Boys 6

	Won	Lost
Metallurgy	6	1
Pop-Ups	6	1
Phoubars	3	4
Bubble Boys	2	5
Deadwoods	3	4
Rat Pack	1	6

Laboratory League
 Chemistry 15 Bio-Meds 2
 Homerun T. Iarocci.
 Six Pax 20 Converts 1

	Won	Lost
Chemistry	5	1
Bio-Meds	4	2
Six Pax	4	2
Charlie Browns	2	4
Converts	0	6

Mixed Softball

by Georgia Irving

On August 4th the poor Amoebas were beaten again! No one knows what happened, we were even ahead for a while and then everyone fell apart letting the He-She's win 10-3.

The second game was really close. The Electrons were playing a terrific game against the first-place Neutrons. Even the umpire was rooting for the Electrons but that didn't help - they lost by two runs in the last inning, final score was 9-7.

I guess you would expect people to act a little silly in a mixed league, but these people were actually hysterical! Sometimes an umpire will call a ball or strike even before it has been pitched, or threaten to pull a girl out of the game if she misses one more easy play!

It is easy to see that the best part of this league is the fun - everybody has some. We are proud to say that there hasn't been one argument this season!

Youth On Tour



Ed Hunter, PE&P, briefs a group of Youth On Campus workers during their tour of the Heavy Equipment Facility. The tour was part of a schedule of visits to be made by all of the youths participating in order to give them an overview of BNL.

Tennis News

Exceptional progress was made during the past week towards completion of the 1970 BERA Tennis Tournament. Only six more matches must be played before the finals. The tennis committee appreciates the efforts of all contestants who have agreed to complete the remaining matches, through the semi-finals, before the end of this week; four matches in the Men's Singles, and one each in Men's Doubles and Mixed Doubles.

All finals have been scheduled for the week of August 17. Four successive days of Championship tennis are scheduled, one match each day, with play to start at 5:30 p.m. In case of rain, an alternate date will be selected.

- Ladies' Singles - Monday, Aug. 17
- Men's Doubles - Tuesday, Aug. 18
- Men's Singles - Wednesday, Aug. 19
- Mixed Doubles - Thursday, Aug. 20

During finals competition, all three courts on the south side will be preemted to allow the contestants to focus their full attention on the game without the possibility of interruption caused by wayward balls coming from the adjacent courts, and to permit unobstructed viewing for the gallery.

Volunteers are needed to help officiate during the finals. If you want to help, please leave your name with the recreation office.

These are the results of tournament play to Tuesday, August 11.

Men's Singles

3rd Round: Elmore - Passell, 6-2, 6-4.

The Walter W. Merkel Men's Doubles Semi-final Round: Brandon, Garelick-Als-Nielsen, Passell, 10-8, 6-1.

The remaining semi-final match will pit the team of Kevey and Auskern against Palmedo and Ascoli.

The friends of Walter W. Merkel have purchased a trophy on which the name of this year's winners will be engraved along with those of last year's champions, the team of Auskern and Kevey. This tournament was named the Walter W. Merkel Men's Doubles to honor the memory of the veteran tennis player who died last year.

Mixed Doubles

First Round: Abata, Als-Nielsen-Kevey, Kevey, 4-6, 10-8, 6-3.

The championship round will have the team of Connell and Ascoli facing the winners of Dorning, Feldberg vs. Abata, Als-Nielsen.

Ladies' Singles

2nd Round: Kevey-Thomas, 6-1, 6-1.

Semi-final Round: Stangby-Stevens, 6-2, 4-6, 6-4; Kevey-Engelbertink, 6-3, 6-3.

Mrs. Stangby and Mrs. Kevey will vie for the championship on Monday, August 17.

Cafeteria Menu

Week Ending August 20, 1970

- Friday, August 14
 - Clam and Celery Bisque
 - Fresh Shrimp w/Tartar Sauce & 1 Veg. .95
 - Grilled Chopped Beefsteak w/ Smothered Onions & 1 Veg. .80
 - Broiled Swordfish w/Lemon Butter & 1 Veg. .90
- Monday, August 17
 - Mushroom Soup
 - Stuffed Cabbage & 1 Veg. .80
 - Chicken Croquettes w/Currant Jelly & 1 Veg. .80
 - Baked Ham Steak, Grilled Pineapple & 1 Veg. .85
- Tuesday, August 18
 - Minestrone Soup
 - Roast Leg of Lamb, Green Mint Jelly & 1 Veg. .80
 - Frankfurters Rolled in Bacon w/Red Cabbage .70
 - Spaghetti in Italian Meat Sauce/ Tossed Green Salad .85
- Wednesday, August 19
 - Southern Bisque
 - Sliced Turkey on Stuffing w/Cranberry Jelly & 1 Veg. .85
 - Salisbury Steak/Onion Sauce & 1 Veg. .80
 - Broiled Swordfish/Lemon Butter & 1 Veg. .90
- Thursday, August 20
 - Onion Soup w/Parmesan Cheese
 - Fried Breast of Chicken Cutlet w/1 Veg. .80
 - Beef Liver w/Grilled Bacon & 1 Veg. .95
 - Ravoli w/Parmesan Cheese & Tossed Salad .80

