

Netters Host Four Tournaments Fill Intramural Card Unbeaten Penn

By BILL JAFFE

Although the weather may be cold outside, the Lion tennis team will have to be extremely "hot" this afternoon if it hopes to upset the visiting University of Pennsylvania netters. Match time is 1:30.

Penn has never been beaten by a Nittany court team in a 14-game series dating back to 1911.

To add to the woes of the Lion courtmen Penn has scored two most convincing victories this week. Tuesday it defeated LaSalle, 9-0, and Thursday shutout Franklin and Marshall College, 9-0.

Last year the Nittanians fell, 7-2, to the Quakers and in 1955 were defeated 8-1. Penn posted two wins in 1956 while losing ten matches in the tough Ivy League.

A most interesting battle should develop when Penn's number one man, John Mangan, will meet the Lion's Fred Trust. Mangan is a 6'3", 200 pound athlete, and will in all probability try to overpower the smaller Trust.

Penn has five returning letter-winners including their number two performer Ralph Levitan, fourth man Axel Jonasson, sixth man Dave Lieberman, and substitutes Charles Barclay and Gerald Finerman.

Sophomores Robert Robbins will be the number three man in Penn's singles entrants while Howie Friedel will go in the fifth spot for coach Wallace Johnson's netters.

To counter the offensives of the Quakers, Coach Sherm Fogg has named in addition to Trust, Charles Bibleheimer, Joe Galiardi, Charles Questa, Pete DeDad and Dick Jacobs to form his singles play nucleus. Forming the doubles combinations will be Trust and Galiardi, Bibleheimer and Questa, and Don Benner and DeDad or Don Harnett.

IM Entries Due

Entries for Intramural tennis doubles, golf and soccer are due by 4:30 p.m. Tuesday at the Intramural office in Recreation Hall.

By BOB GULLO.
Thursday night was another typical evening of Intramural activity as four tournaments again filled the action-packed IM card.

IM BOWLING:
In intramural bowling activity, Alpha Gamma Rho remained comfortably set in first place of fraternity League C by defeating Chi Phi, 4-0, to sport a 34-6 mark.

Lambda Chi Alpha downed Zeta Beta Tau, 4-0; Beta Theta Pi defeated Sigma Nu, 3-1; and Delta Sigma Phi whipped Pi Kappa Alpha, 4-0. Acacia shut out Theta Kappa Phi, 4-0, and Sigma Phi Alpha took a forfeit win from Phi Kappa Sigma.

In League D Beta Sigma Rho was held to a 2-2 tie by Delta Tau Delta; Sigma Tau Gamma shutout Alpha Phi Delta, 4-0; and Pi Kappa Phi beat Sigma Phi Epsilon, 3-1. Alpha Rho Chi forfeited to Phi Kappa Tau.

IM BADMINTON:
Wednesday night: Joe Boston, Sigma Phi Epsilon beat Sid Schreiber, Pi Lambda Phi, 15-5, 15-9; Ed Thost, Alpha Gamma Rho, defeated Sigma Phi Alpha's

Sam Moore, 0-15, 15-13, 15-10. Jim Kane, Phi Kappa Sigma, downed Jim Wentz, Theta Xi, 15-3, 15-5; and Tom Allardice, Pi Sigma Upsilon defeated Theta Delta Chi's Harv Eckert, 7-15, 15-8, 15-0. Indie victors were Bruce Pellnitz, Bill Mikesell, and Gary McFarlane.

Thursday night: Jim Schry, Phi Delta Theta, walloped Fred Donahoe, Tau Kappa Epsilon, 15-1, 15-1; Ken Christiansen, Alpha Chi Sigma, trounced Francis, Paolone, Theta Chi, 15-1, 15-1; Bill Wild, Alpha Sigma Phi, whipped Steve Justham, Alpha Chi Rho, 15-0, 15-2.

Chuck Glidden, Alpha Gamma Rho, beat Craig Kauffman, Kappa Sigma, 15-9, 15-5; Pete DeDad, Sigma Pi, downed Angelo Capuano, Sigma Phi Epsilon, 15-5, 15-12; and Ron Casarella, Phi Kappa Tau, beat Dave McCollough, Theta Delta Chi, 11-15, 15-10, 15-11.

Mel Royer, Alpha Tau Omega, Jack Javens, Pi Kappa Sigma, and Stanton Vogin, Phi Sigma Delta, copped forfeit win.

IM HANDBALL:
Jim Lysek and Russ Mandeville, Sigma Alpha Epsilon, downed

Ray Myers and Andy Hibler, Sigma Nu, 21-15, 21-12; Bob Neff and Carl Hiestler, Alpha Gamma Rho, beat Jim Jordy and Ed Lynam, Sigma Chi, 21-4, 21-15; John Wright and Norm Schue, Alpha Zeta, romped over Denny Uhrin and Bill Gallagher, Phi Kappa, 21-4, 21-1.

Milt Plum and Paul Schonbachler, Phi Delta Theta, defeated Hal Pellow and Chet Buckenmaier, Phi Kappa Sigma, 21-6, 21-6; Don Ferguson, and Barry Hough, Phi Gamma Delta, decided Les Walters and Joe Riley, Delta Upsilon, 21-11, 21-17. John Haas and Jim Keith, Sigma Chi, downed Bob Schreider and Jim Robson, Sigma Nu, 21-9, 21-10.

IM VOLLEYBALL
Volleyball winners were: the Hornets, the Bullets, the Cougars, Jordan Two, Theta Chi, Sigma Nu, Phi Delta Theta, Delta Chi, Delta Upsilon, Sigma Phi Alpha and Alpha Zeta.

CLASSIFIEDS

ADS MUST BE IN BY 11:00 a.m. THE PRECEDING DAY
RATES—17 words or less:
\$0.50 One insertion
\$0.75 Two insertions
\$1.00 Three insertions
Additional words 3 for .05 for each day of insertion.

FOR SALE

1941 CHEVROLET 5-pass. coupe, exceptional condition, new tires, battery, inspection, radio and heater. AD 7-2269, Mrs. Hyatt.

BEAUTIFUL BURLAP Rugs. Call Milt the Rugmaker between 5 and 11 p.m. AD 7-4957. He does expert work!

MG (TD)—late 1951. Good condition, reasonable price. Call Gunter AD 7-2251 between 5 and 6 p.m.

SUITABLE TRAILER locations. Sunrise Trailer Court, six miles from State College on Benner Pike. Water, sewage, laundry, garbage facilities. Call ELgin 5-446 after 5 p.m.

FOR RENT

LARGE DOUBLE Room; clean, close to campus. Available immediately. Call AD 7-4485 anytime.

ROOMS FOR RENT: All summer sessions. Special low rates, make reservations now. Apply 317 E. Beaver Ave. Ask for Mrs. Elleard. Board and room reservations also being taken for fall semester.

RIDE WANTED

RIDE TO Alabama, spring vacation. Will share expenses. Call Dan George ext. 297.

LOST

PLYMOUTH RAINCOAT at Phi Sigma Delta Saturday, April 6; has "Chief Levin, Easton, Pa." label. I have yours. Dick Fisher AD 7-4409.

ONE NAVY Blue rhinestone drop earring. Please call 128 Atherton, Lois Philips.

LADIES WATCH between Home Economics Building and Thompson on Wednesday. Sentimental value. Reward. Call Becky, 1093 Thompson.

P.S.U. RING, '55, initials B.A.L., in Willard. Call AD 8-9614 after 6:30. Reward.

BROWN RIMMED Glasses, gold-spotted case; between E.E. and McElwain. Call Joan, 406 McElwain.

WALTHAM WATCH—Ladies gold with expansion band; between Atherton, Schwab and 200 block E. Beaver Ave. Call Joan, 137 Atherton.

WANTED

A POST CARD with your name and address for Grindle & Co., P.O. Box 633, State College, Pa.

PASSENGERS TO Florida's Gulf Coast, and return; St. Petersburg, Tampa, Clearwater; Easter vacation. Contact Dick Moller AD 8-6786.

RIDERS WANTED to Columbus, Ohio and vicinity. Leaving Wed., April 27 at 11 a.m. Call Tom Hartzell AD 7-7955.

AGENTS WANTED: Summer selling campaign. You can make \$25.00 weekly in your spare time—we supply you with free material for over 100 different magazine subscriptions. Bonuses—Prizes—Commissions. Drop a post card with your name and address to: Grindle & Co. P.O. Box 633, State College, Pa.

MISCELLANEOUS

ALL STUDENT Drycleaning Agencies will close Tuesday, April 16 and will reopen Thursday, April 25.

EVERYONE WELCOME to Phi Kappa Tau's Milkman's Matinee coming back to Penn State Saturday afternoon, April 27.

SOFTBALL PITCHERS: Any students interested in pitching for local softball team this summer call AD 7-2609 after 6 p.m.

PUBLIC AUCTION: University Used Equipment will be sold as is—Terms Cash—on Saturday April 20, 1957 at Salvage Warehouse, The Pennsylvania State University, University Park, Pa. Sale starts promptly at 10 a.m. (Standard Time)

DANCE TO the smooth music of Don Krebs and his orchestra this Saturday at the Phillipsburg American Legion from 10:30 to 1:30. Legionnaires and their guests welcome.

FOR PROMPT and expert radio and phonograph service stop at State College T.V., 432 South Allen Street.

IS YOUR typewriter giving you trouble? If so, call AD 7-2492 or bring machine to 633 W. College Ave.

IT'S HASSLINGER for racket stringing the No-Awl Way Latest factory equipment, prompt service, guaranteed work. Longer life to string and racket. R. T. Hassinger, White Hall or 514 Beaver Ave. after 5 p.m.



"What's it like to be

A RESEARCH ENGINEER AT IBM?"

Two years ago, college senior Robert Thorpe asked himself this question as he worked toward his E.E. at the University of Toledo. Today, an Associate Engineer in the Applied Logic Group of IBM Research, Bob reviews his experiences and gives some pointers that may be helpful to you in taking the first, most important step in your career.

"I joined IBM for two clear-cut reasons," recalls Bob. "First, the tremendous company growth obviously offered every chance for advancement. Second, the work area was exactly what I was looking for—transistors and their application to computer systems."

Bob entered IBM's voluntary training program in June, 1955, where he studied the entire organization, its divisions and diversified products. He received technical training in computer logic, programming, and components such as transistors, cores and tapes. By September, half his day was being devoted to an actual project; by the following March, he was on this project full time. "Our job was



The "small-group" approach to research

to transistorize six servo-amplifiers for the MA-2 bombing-navigational system," he recalls, "and we completed the project in April."

In IBM Research (as in all IBM) Bob works in a small group. "Our team consists of three E.E.'s and a technician. We start with analysis and synthesis work involving math and systems logic. Then we use the 'black box' approach." His group splits up occasionally to research special phases of a project but reunites in frequent sessions to coordinate activities.

Promoted to Associate Engineer

In August, 1956, Bob was made an Associate Engineer. From April of the same year, he had been working on a new Government project. This was "to design and develop a transistorized radar data presentation system for the MA-2 system." Basically, this was a research program in sample data theory and the develop-

ment of a system containing both analog and digital components. Bob still works on this project—toward a completion date of April, 1957.

Shortly after this program started, Bob joined the Applied Logic Group.



Plotting transistor characteristics

Here, he was concerned with research in new areas of computer technology—for example, cryogenics and high-speed memories. Bob studies systems which operate on "real time," and his immediate problem is to analyze and synthesize closed-loop sample data systems for the control of complex data processing.

Asked what his most interesting assignment was, Bob replied, "My



New areas of computer technology

work on a digital-to-analog converter with a high degree of sensitivity and accuracy. This strictly electronic converter, with transistors, combines both digital and analog circuitry. It was a tough problem, and a fascinating one."

What does the future hold?

At the present time, after two years in IBM Research, Bob is more than enthusiastic about his future. He plans to continue in systems study and to develop "a more sophisticated approach." Two lines of advancement are open to him: to Project Engineer,

the administrative side, or to Staff Engineer, the technical side of Research. "Either way, I'm sure I'll get ahead," Bob feels. "Electronics research is really on the move at IBM. We have about 600 people at Poughkeepsie now, as against 56 in 1950. We'll need some 1,700 before 1960 to help staff a new research laboratory at Yorktown Heights, Westchester County, N. Y."

What does he like best about IBM? Probably the fact that he's so much "on his own." "There's no 'over-the-shoulder' supervision," he says. "You schedule your own program and create your own 'pressure.' And, if you



Promoted in fourteen months

feel the need for more education, IBM provides every facility for continued study. Besides the voluntary training programs, there are excellent afterhours courses offered by the IBM Department of Education. And you have a chance to work toward advanced degrees—at IBM expense."

IBM hopes this message will give you some idea of what it's like to be an E.E. in Research at IBM. There are equal opportunities for E.E.'s, L.E.'s, M.E.'s, physicists, mathematicians, Liberal Arts majors, and Business Administration graduates in IBM's many divisions—Product Development, Manufacturing Engineering, Sales and Sales Assistance. Why not drop in and discuss IBM with your Placement Director? He can supply our brochure and tell you when IBM will next interview on your campus. Meanwhile, our Manager of Engineering Recruitment, R. A. Whitehorse, will be happy to answer your questions. Just write him at IBM Corp., Room 11804 590 Madison Ave., New York 22, N. Y.

