### TENTATIVE SCHEDULE

**Final Sweat And Tears**

**Monday, January 21, 1963**

<table>
<thead>
<tr>
<th>8:00 A.M.</th>
<th>1:00 P.M.</th>
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</thead>
<tbody>
<tr>
<td><strong>Physics I (3 hrs.)</strong></td>
<td><strong>Field House</strong></td>
</tr>
<tr>
<td><strong>Theo. Mech. (2 hrs.)</strong></td>
<td><strong>Field House</strong></td>
</tr>
<tr>
<td><strong>Chem. Lab.</strong></td>
<td><strong>E. C. Lab.</strong></td>
</tr>
<tr>
<td><strong>Machine Design III</strong></td>
<td><strong>C. E. Lab.</strong></td>
</tr>
<tr>
<td><strong>Structures (44 hrs.)</strong></td>
<td><strong>C. E. Lab.</strong></td>
</tr>
<tr>
<td><strong>Process Control</strong></td>
<td><strong>206</strong></td>
</tr>
<tr>
<td><strong>Elect. C. I. I.</strong></td>
<td><strong>204</strong></td>
</tr>
</tbody>
</table>

**Tuesday, January 22, 1963**

<table>
<thead>
<tr>
<th>8:00 A.M.</th>
<th>1:00 P.M.</th>
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<tbody>
<tr>
<td><strong>Math. III</strong></td>
<td><strong>Field House</strong></td>
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<tr>
<td><strong>Field House</strong></td>
<td><strong>Field House</strong></td>
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<tr>
<td><strong>Field House</strong></td>
<td><strong>Field House</strong></td>
</tr>
<tr>
<td><strong>Unit. Op. Lab. II</strong></td>
<td><strong>(2 hrs.)</strong></td>
</tr>
<tr>
<td><strong>Electr. Mech. En. Conv.</strong></td>
<td><strong>304</strong></td>
</tr>
<tr>
<td><strong>Heat Transfer</strong></td>
<td><strong>214</strong></td>
</tr>
</tbody>
</table>

**Wednesday, January 23, 1963**

<table>
<thead>
<tr>
<th>8:00 A.M.</th>
<th>1:00 P.M.</th>
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<tbody>
<tr>
<td><strong>Physics I</strong></td>
<td><strong>Field House</strong></td>
</tr>
<tr>
<td><strong>Field House</strong></td>
<td><strong>Field House</strong></td>
</tr>
<tr>
<td><strong>Chem. Lab.</strong></td>
<td><strong>C. E. Lab.</strong></td>
</tr>
<tr>
<td><strong>C. E. Lab.</strong></td>
<td><strong>E. C. Lab.</strong></td>
</tr>
<tr>
<td><strong>E. &amp; M. Fields</strong></td>
<td><strong>Auditorium</strong></td>
</tr>
<tr>
<td><strong>Mech. of Materials</strong></td>
<td><strong>Auditorium</strong></td>
</tr>
</tbody>
</table>

**Thursday, January 24, 1963**

<table>
<thead>
<tr>
<th>8:00 A.M.</th>
<th>1:00 P.M.</th>
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</thead>
<tbody>
<tr>
<td><strong>Theo. Chem.</strong></td>
<td><strong>3 hrs.</strong></td>
</tr>
<tr>
<td><strong>Auditorium</strong></td>
<td><strong>4 hrs.</strong></td>
</tr>
<tr>
<td><strong>Calc. I</strong></td>
<td><strong>Field House</strong></td>
</tr>
<tr>
<td><strong>Unit. Op. I</strong></td>
<td><strong>E. C. Lab.</strong></td>
</tr>
<tr>
<td><strong>Machine Design I</strong></td>
<td><strong>214</strong></td>
</tr>
<tr>
<td><strong>Mod. Phys. (Physics)</strong></td>
<td><strong>204</strong></td>
</tr>
<tr>
<td><strong>C. E. 427 (3 hrs.)</strong></td>
<td><strong>C. E. Lab.</strong></td>
</tr>
<tr>
<td><strong>Thermo. (3 hrs.)</strong></td>
<td><strong>214</strong></td>
</tr>
<tr>
<td><strong>Traveling Waves</strong></td>
<td><strong>204</strong></td>
</tr>
<tr>
<td><strong>Surveying</strong></td>
<td><strong>C. E. Lab.</strong></td>
</tr>
</tbody>
</table>

**Friday, January 25, 1963**

<table>
<thead>
<tr>
<th>8:00 A.M.</th>
<th>1:00 P.M.</th>
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</thead>
<tbody>
<tr>
<td><strong>Statistics (3 hrs.)</strong></td>
<td><strong>204</strong></td>
</tr>
<tr>
<td><strong>Math. IV</strong></td>
<td><strong>204</strong></td>
</tr>
</tbody>
</table>

**Note:** All conflicts to Mr. Lee's Office by Saturday, January 12.
In a rapidly expanding Rose, there will be a multitude from his position. Gary Althen dared to print a "nearly libelous" letter to the editor on politics. Although later apologies were made to the prominent politicians involved, the President and Board entered the affairs of the student newspaper. Although she had taken a stand deliberately, the majority of faculty members—Co-Editors and faculty all huddle to decide what to do. As usual, the bookstore is bulging with more technical minds for tomorrow. Are these Rose grads non-progressive educators? No the contests aren't over. And you want to put them? The computer errs in the Technic, Mr. Daugherty gave his views for the physical sciences. Before continuing in our discussion, we will deal only with cold facts. We found these statistics in the Statistical Abstract of the United States, 1962:

<table>
<thead>
<tr>
<th>Field</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineers 224,390</td>
<td></td>
</tr>
<tr>
<td>Engineers 648,900</td>
<td></td>
</tr>
<tr>
<td>Chemistry 1,138</td>
<td></td>
</tr>
<tr>
<td>Physics (incl. astronomy) 602</td>
<td></td>
</tr>
<tr>
<td>Mathematics 14,100</td>
<td></td>
</tr>
<tr>
<td>Chemistry 15,800</td>
<td></td>
</tr>
<tr>
<td>Engineers 668,400</td>
<td></td>
</tr>
</tbody>
</table>

TOTAL EMPLOYED IN RESEARCH AND DEVELOPMENT

So if you judge the profession by the number employed, you have many more than the other three major sciences. If you judge it by the amount of research, then the figures speak for themselves. And the number employed, past the 20th Century, more than trees were conferred to men majoring in engineering. Engineers are neither small in number, lazy or unin- telligent.

However, this is not the point that we're trying to stress. It's very easy for a Math major to get into a discussion with a Chem E and both will tend to tell the other that his line of education is purposeless. The major form of delight around here seems to be to subtly imply "the other way". Many new instructors and taught students use this form of entertainment quite frequently.

According to the Rose Polytechnic Annual Report 1960-61, the faculty have that the Explorer will honor any letter sent in as long as it's written in good form, presents a valid argument and is signed in ink. You have the very same editorial freedom as the editors do. Hooked off about something? Write a letter.

Next Friday and Saturday at 8:30 p. m. and for 10 p. m., the Community Theatre will present a movie. A Summer to Remember is a film of all ages. It would give everyone the opportunity to see exactly what type of entertainment that Russians enjoy.

Dr. Rogers: A couple things I'd like to talk about; in a nutshell, up ten chapters. Some of the things that are not to be a hero worshipper, you have to have a beard and a moustache; "whistle along with Jack and Joe" sounds like a hit.

A theory on why engineers from Rose believe in the New Year. All you have to do is write a letter. It's only fair to give the engineer his rightful say. He is neither small in number, lazy or unin- telligent.

On my quickie?

Welcome back to Prof. Anthony Blake and Prof. Reid Bush, who are both accepting the office of their profession. Engineers have an option, they may elect employment immediately to gain practical knowledge more rapidly or they may then continue their education so that they may work more intimately with scientists.

Scientists are almost required to continue their education above the bachelor level in order to fulfill the responsibility of their profession. Engineers have an option, they may elect employment immediately to gain practical knowledge more rapidly or they may then continue their education so that they may work more intimately with scientists.

Therefore, Rose Poly students and instructors, America needs both. Engineers are not scientists and neither are scientists engineers. There is no reason why professional rivalry should get any deeper; it's approaching the deadly stage so let's stop it before it gets out of control.
THE TRENDS?
MORE HOURS
LESS CREDIT

The hue and cry of students receiving one hour of credit for the hour of laboratory work is losing ground to undercover forces — faculty members requiring even MORE HOURS OF IN CLASS TIME for the same credit.

We do not speak of the increase in evening tests. As long as daytime classes are cancelled to compensate for ground to undercover forces — faculty members require even evenings at instructor's homes.

The real topper is in ROTC. Credit has long been a bone of contention here. Two years ago, the Monday, one-hour round drill was abolished in favor of two-hour fall and spring drill, same total hours, same credit.

Now, however, MS III's and many MS IV's are required to "volunteer" for drill during the Winter also — without reimbursement to "volunteer" for drill during the Winter also — with one hour of drill was abolished in favor of two-hour fall and spring drill, same total hours, same credit.

How can telephone craftsmen be kept up to date on the sophisticated equipment of the Telstar age? Paul Downing (H.S., 1956) solves this puzzle for Illinois Bell.

Paul's job is to evaluate Illinois Bell's plant training methods. He came to this job from one in which he supervised 72 repairmen and installers. As Test Center Foreman for the Franklin District of Chicago, Paul learned the business quickly and showed a strong knack for handling responsibility. This important ability led to his promotion as Telephone Wire Chief.

By Marvin Barkes

Personal Initials
Win Over Frats' 

It's the beginning of a new year, and as is the case with businesses all over the country, it is inventory time for the Explorer. Since it was found a short inspection of the paper's vast world of folder filing that there was nothing which could rightly be put on an inventory sheet, a decision was made to take inventory someplace other than the Explorer office. After all, we all knew that all but the busiest businesses must turn up with an inventory — of some kind!

The search for something inventory-able was brought to an end in the classrooms of Rose. It was decided that an inventory of the desks (and the literary works found therein) would be taken. The inventory taken covered rooms 201 thru 211.

In the nine rooms, there was a total of 416 desks, part of which were made of hard oak, and part from softer, surfaced plywood. Rather than bore the reader with descriptions of all the bits of literature found on the desks, it has been decided to bore you only with the general trends and most popular comments appearing on the desks.

Persons' initials seemed to be about the most frequently appearing scratchings. Though fraternity symbols rated a close second. Sigma Nu was in the lead in the desk-top-scratching poll with a total of 9. Alpha Tau Omega was runner-up with a total of 5, followed by Theta Xi with 3 and Lambda Chi Alpha with 2.

It was noticed that the softer plywood-surfaced desks were more vulnerable to the desk-top-scratchers than were the oak models. Nearly all of the plywood surfaces contained something of literary value.

Also, it was observed that the rooms with the most most desk-scratches are those frequented most often by humanities. For this there is no readily-available explanation.

Convo Speaker Stuns Audience
BY Tony Smere

The stout, gray-haired woman had just finished relating a war adventure she had allegedly experienced as a spy in the service of the British during the second world war. Suddenly she changed the topic, addressing the audience not to judge a person's character from their outward appearance for looks can be deceiving, and with a sudden sweep of the hand proved this point. Mr. Martin Hughes had just given another of his famous character portrayals. A stunned audience knew nothing but silence. If only the science could present its maxims as vividly as Mr. Hughes had proved its point.

His career started in his student days when he and a friend crashed a Fred Hawkins Dance — he playing the feminine part. After graduating from college he went into business and it wasn't until several years later that a friend suggested he play the part of a woman speaker at a convention.

He has been introduced as the great — great — granddaughter of the revolutionary war hero, only to discover later that he had been a bachelor. He received a woman's sympathy and was very jealously made the remark that he didn't think he would be "too" children and on another occasion a man remarked to him in the street, "Oh, it's you! I didn't recognize you with your clothes on!"

TOUCHE

What do you think is the rough- est sport? I say hockey. Why? The St. Paul Smiths were fined $200 and the "Fighting Saints" — as they're fondly called — public Jacques Marmette wasn't even in play but didn't like a call by Kam and came off the bench swinging his stick! This is a common occurrence in hockey.

Good judgment comes from experience, and experience comes from poor judgment.

Dr. Meeks Working
In Acoustics

By Jim Eddleman

Dr. W. W. Meeks has been engaged in research trying to deduce from acoustical measurements, certain physical properties of a material and then measuring the physical properties directly by an independent method and finally comparing the results. This is accomplished through the use of underwater resonant absorbers-rubber mats cemented onto a steel backing plate. A number of holes are molded partly through the rubber mat, the resulting air pockets along with the rubber layers over the holes form a resonating system. By choosing suitable mechanical models for the resonating system one can deduce from acoustical measurements made on the absorbers, certain physical properties. The physical properties are then measured independently and the results are compared.

The research has been supported by the Office of Naval Research for three years. The research might find useful application in lining tanks used in underwater sound measurements. Dr. Meeks says that the acoustical measurements are well under way but the program of measuring physical properties independently is just getting started.

THE BELL TELEPHONE COMPANIES SALUTE: PAUL DOWNING

How can telephone craftsmen be kept up to date on the sophisticated equipment of the Telstar age? Paul Downing (H.S., 1956) solves this puzzle for Illinois Bell.

Paul's job is to evaluate Illinois Bell's plant training methods. He came to this job from one in which he supervised 72 repairmen and installers. As Test Center Foreman for the Franklin District of Chicago, Paul learned the
Rose Students Coloring Book
[ A CHILD'S GARDEN OF MILDEW ]
(Those with the time may supply the pictures)
BY KEN WICKWIRE

1. This is the Math Department; Color the snow on the floor white.

2. This is an R. O. T. C. class; color it boring; color the instructor's blouse and trousers green; color the student's expressions green.

3. This is a faculty trend; color the beards frowzy brown.

4. This is the eating area in the Student Center; color the card players' faces red.

5. This is a physics professor; color the "arrows" in his right hand revolving; color all the other "spears" painful.

6. This is a surprise quiz; color it completely unexpected. Today teacher told us he spends more time thinking about when to give these than he does in preparing his lectures.

7. This is a Rose laboratory; color the broken equipment black; color the unused equipment gray; color all the other equipment invisible.

8. This is a parking lot; color it full to overflowing with pretty cars; color it this way for at least ten more years.

9. This is a Rose graduate; color him colorful; he is well rounded.

10. This is a convocation; first find the students; then color them.

11. This is the author; color his future now very drab.

ED. NOTE: Coloring Contest winner receives a free, no-expense paid trip to Crayola plant.
continued from page 1
in the current administration of foreign policy which on a daily basis seems to be pervaded by the spirit of the Monroe Doctrine. He said that "Governor Stevenson and his followers seemed to be negotiating on anything and on any principle no matter how vital it is to American interests." The apparently included the principle of the Monroe Doctrine. It is obvious that apparently in the last analysis the Stevenson attitude had prevailed in the Cuban crisis. This is the reason in the Cuban situation has certainly not been eliminated and possibly the continued existence of Communist Cuba had been justified by the United States. In this regard he quoted from Senator Richard B. Russell, Democrat of Georgia, long-time chairman of the Senate Armed Services Committee:

"We have temporized. We have even lifted the quarantine. Frankly, I thought that was a mistake. I didn't think we should lift the quarantine, or make any guarantees as to Cuba, until we had had the right of on-site inspection throughout Cuba, and we will have to eventually rid this hemisphere of Castro and all his works."

Here three months ago we were pledged to see that Castroism in this hemisphere was destroyed. We have now been co-opted into the position of babysitting for Castro and guaranteeing the integrity of the Communist regime in Cuba, and we don't know for a fact that the policy and the bomber have been removed. I assume that they have, but all we have seen is a box that they said contained the bomber, and a long metal container that they said contained the missile.

"I certainly hope that we will not allow any further concession until we at least have the right to send the United Nations to see that there are no missiles hidden in the caves or other strategic places in Cuba, and we have the right to test to see whether there are any atomic nuclear warheads there. That is a fact that can be carried on through instrument and is reasonably accurate."

continued from page 1
I don't know."

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MEADOW GOLD DAIRY Servicelag
ROSE CAFETERIA & STUDENT CENTER With High Quality
MILK & ICE CREAM
"If It's Meadow Gold It's Mighty Good"
Beatrice Foods Co. C-6658
Dining Room or Car Service

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Fast Growing/Bold Research Programs
Dynamic Young Management/Financially Sound
National Prestige/Excellence Plant Locations
Expanding Sales Volume

Our representative will be on campus next Thursday, Jan. 17

continued from page 1
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A LOT OF FAITH AND A LITTLE LOVE

Bolivar (notice his hat?) had a difficult time in plowing thru all the rubble which was in the new dorm last month. However, since then the new hall has been cleaned considerably and Bolivar has been appointed as the fourth floor counselor... he now resides in room 401-A.

The Placement Picture

By PROFESSOR PAUL B. HEADDY
Director of Admissions and Placement

It has become a tradition that Rose men are sought by industry when they graduate.

During the 1961-62 school year, the following 134 companies, from all over the United States, sent recruiters to Rose Polytechnic Institute to interview and compete for the services of 65 graduating seniors. Many others competed without sending representatives to the campus. Before June, every man was either placed in industry or had made plans to go to graduate school or to service. The average starting salary was nearly $560.00 per month. This does not include the benefits such as insurance, profit-sharing, stock-buying, and financial assistance for pursuing graduate study.

The centralized Placement Office promotes and coordinates this service with the cooperation of the Administration and Faculty, to help every Rose man, whether he is an undergraduate, graduate, or alumnus, to find his proper place in our ever-changing economy.

A number of our undergraduates who are employed during the summer by industry accept positions with these companies after graduation.

The following companies sent representatives to our campus during 1961-62 to interview seniors and undergraduates.

Aeronautical Systems Division
Allied Chemical Company
Allis-Chalmers Mfg. Co.
Allison Division — G.M.C.
American Air Filter Co.
American Oil Co. — Sales
American Oil Company — Operations
American Tel. & Tel. Co.
American Viscose Company
Anacorda Wire & Cable Co.
Argo Industries
Associated Spring Company
Bell Telephone Labs.
The Bendix Corp.
Boeing-Warner Company
Brown & Williamson Tobacco Co.
The Budd Company
Bunker Hill Air Force Base
Bureau of Reclamation
Campbell Soup Company
Caterpillar Tractor Company
Central Foundry Division — G.M.C.
Chemstrand Corporation
Chevi—Service Petroleum Company
City of Chicago
Chrysler Institute
Cleveland Electric Illuminating Co.
Colgate Palmolive Food Products Co.
Collins Radio Company
Commercial Solvents Corporation
Commonwealth Edison Company
Continental Electronics
Core Products Company
Corporate Center
Corporate Services System
Cummings Engine Company
Dayton Power and Light Co.
Delco-Remy Division — G.M.C.
Detroit Edison Company
Diamond Chain Company
The Dow Chemical Co.
Dow-Jones Publishing Co.
DuPont Company
Factory Insurance Association
Factory Mutual Engineering Corp.
Firestone Tire & Rubber Co.
Ford Motor Company
Gales Radio Company
General Electric Co.
General Foods Corp.
General Motors Corp.
General Telephone Co. of Ind.
Goodman Manufacturing Co.
The B. F. Goodrich Co.
Goodrich-Gulf Chemical Co.
Guide Lamp Division G.M.C.
Hamilton Standard
Harami Company
Hyster Company
Illinois Power Company
Indiana Bell Telephone Co.
Ind. Bureau of Public Roads
Ind. Fuel Control
Indiana Steel Co.
Inland Steel Co.
The Institute of Paper Chemistry
International Business Machines
International Harvester Co.
Interstate Electronics
J. K nigeldt Company
Koppers Company
Liberty-Owens-Ford Glass Co.
Lincoln National Life Ins. Co.
Lincoln Electric Co.
Litton — Data System Div.
McCormick Aircraft
Magnavox Co.
Mallinckrodt Chemical Works
The Mead Corp.
Mead Johnson Company
Minnesota Mining & Mfg. Co.
Morgan County R.E.M.C.
Motorola, Inc.
National Aeronautics & Space Admin.
New York Central R. R.
North American Aviation
Northern Indiana Public Service Co.
Oakland Chemical Corp.
Oehm Manufacturing Co.
Packard Electric Div. — G.M.C.
Pacific Missile Range
Pennsylvania R. R.
Perkett Circle Corporation
Perkin-Elmer Corp.
Proctor & Gamble Mfg. Co.
Public Service Co. of Indiana
Radio Corp. of America
Republic Steel Corporation
Sarkes Tarzian, Inc.
Sarnierl Refining Company
Secony Mobil Oil Company
Standard Oil of Ohio
Surface Combustion
Texaco, Inc.
Thompson Ramo Wooldridge Co.
The Teane Corp
Union Carbide Co.
Union Electric Company
U. S. Air Force
U. S. Army Corps of Engineers
U. S. Army Ordnance Tech.
Placement Office
U. S. Dept. of Commerce — Patent Office
U. S. Geological Survey
U. S. Gypsum Company
U. S. Marine Corps
U. S. Naval Ammunition Depot
U. S. Navy Armories Facility
U. S. Naval Ordnance Lab.
U. S. Naval Propellant Plant
U. S. Navy Recruiting
U. S. Potomac River Naval Command
U. S. Rubber Company
U. S. Steel Corp.
Walker Manufacturing Co.
Western Electric Company
Western Union Tel. Co.
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EXEMPLARY CAREER DEVELOPMENT OPPORTUNITIES FOR Engineers and Physical Scientists

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Physical Sciences unique career development opportunities...

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Greeks Enjoy Full Season

Alphal Tau Omega

A mixer and a Christmas party for 30 underprivileged children were the social highlights of Dec. for Alpha Tau Omega.

A mixer was held on December 8th, with the Alpha Tau Omegas of the Delta Gamma sorority and ATO then on December 16th, with St. Mary-of-the-Woods. Lambda Chi Alpha

The Christmas season at Lamb-da Chi Alpha was once again in the spirit of giving. November 29th, the student nurses from Union Hospital were guests at the house. At the gathering the girls were invited to participate in the formation of the Christmas decorations. On December 6th, Lambda Chi combined to decorate the long-needed pine tree, everyone ad-journed to the basement for dancing but as time passed more dancing was prolonged, refreshments and some singing also included singing with the children. On December 7th, the "Jingle Bells", which evidently is still popular with the underprivileged children. On December 10th, the student nurses once again in the after hours at the house. The following day the traditional Noel Kappa's of ISC. The Bowery Boys were members of the "Jingle Bells", which evidently is still popular with the underprivileged children.

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Mutual Funds as a Stabilizer In Market Break of '62

By J. R. O'DAY

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B-BALL TEAM TO PLAY GREENVILLE, WABASH, MARION

Tomorrow, the basketball team is travelling to Greenville, Illinois in the hopes of improving their 2-2 conference record to a more solid 4-2. Last year, the Engineers fell to Greenville twice, both times Dave Dumford and Ron Danielowicz fouled out giving a scoring aid to the Illinois team. Coach Jim Carr, confident of another victory, said, “They (Greenville) have always had good teams in the past but we’re very capable of winning.”

Next Tuesday, January 15, the team will return home for a non-conference match with independent Wabash College. This will be the first time in 14 years that the two schools have met on the hardwood. Wabash has an extremely good team this year. Purdue beat them by only nine points but only thru a scoring Blackburn game, which Rose won 91-78, everyone of the leading scorers. Chute is the top offensive rebounder and Hart is the leading defensive rebounder.

The next week all the old stand - by kids seem to fall apart. Faculty standouts of the past as well as those upperclassmen who have been considered possessing bowling knowledge of the sport of bowling could not find the pins. The only bright spot of the day was the team headed up by Ron Thomas. They turned in a very fine showing and was evident in the third weeks bowling, (it is the third team to beat.) In the third week of bowling, the Rose team is the second. In the fourth week of bowling, the tournament brings to mind another outstanding bowler from the Military Department of the past, Blake. Many will remember his outstanding performance week after week. There has been no other team that has not thus far suffered a defeat. They are truly one of the finest bowling teams in the country. The Rose Poly’s bowling prowess in consistently getting better.

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Bowling Scores High
Hoffman’s Team

Undefeated

Once again intramural bowling is in full swing. Tuesday afternoon at 8:30 p.m. Rose men coed and men and women co- or un-nominated both, matched up in the case of bowling.

With the scores that were turned in after the first week’s games, one would say that the better part of the skill some of the Rose men possesses. Dominated by Mel Izzumi threw the highest single game totals, 245,000, which has been seen by this reporter in the last four years. High single game rolled that day was 200, achieved by both Jake Hoffman and Sam Bean.

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