#### Rose-Hulman Institute of Technology

#### Rose-Hulman Scholar

Institute Inklings

Student Newspaper

Winter 2-3-1967

#### Volume 2, Issue 10 - February 3,1967

Institute Inklings Staff
Rose-Hulman Institute of Technology, library@rose-hulman.edu

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#### Recommended Citation

Institute Inklings Staff, "Volume 2, Issue 10 - February 3,1967" (1967). *Institute Inklings*. 40. https://scholar.rose-hulman.edu/institute\_inklings/40

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## INSTITUTE NNKINGES

VOLUME 2 - NUMBER 10 ROSEPOLY TECHNIC INSTITUTE TERRE HAUTE, INDIANA

February 3, 1967

## FEDERAL GRANT HELPS INVENTION

TERRE HAUTE, Ind. (Special) — Backed by a federal demonstration grant of \$23,780, an invention by a Rose Polytechnic Institute professor of bioengineering promises to be an improved weapon in the nation's fight against water pollution.

The device, the product of five years of original development at Rose by Dr. Robert Arthur, automatically detects the amount of polluting biological material in waste water within one to two hours.

With the Arthur invention, control is possible as a continuous process before rivers, lakes and streams are fouled.

Pollution occurs when sewage plants and industrial installations allow insufficiently treated wastes to be poured into waterways. Microorganisms in the wastes take so much oxygen from the water that aquatic life cannot survive. In extreme cases, the amount of oxygen in the water is reduced to the point where septic action is present causing odors and unsightly conditions.

Known as an automatic recording respirometer, the device invented by Dr. Arthur determines the increased need for more oxygen at waste water treatment plants and could automatically provide for additional treatment before waste is discharged into the waterways.

The grant from the Federal Water Pollution Control Administration of the Department of the Interior will make it possible for Dr. Arthur to demonstrate the effectiveness of the automatic equipment with two installations on the Wabash River and a third at Rose Polytechnic Institute.

After completion of tests and processing of data on the Rose computer,

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## ROSE CITED NATIONALLY

Rose Polytechnic was presented the "Campus Beautification Award" during ceremonies at the White House, it was announced last week. The annual award, sponsored by the "Keep American Campuses Ethnic" committee, is one of the most coveted in the educational industry. The University of California at Berkeley presently holds the record for the award, having held it four years consecutively. It was felt that this year's loss was linked to the stringent measures imposed by the newly-elected governor of that state.

In spite of the stiff competition, Rose swept the field with its "Campus Casual" theme. This included carefully placed footprints through shrubbery around the dormitories, wellworn paths through new grass, colloquial expressions scrawled on bulletin boards, and assorted refuse (candy and gum wrappers, crumpled Coke cups, and beer cans) delicately scattered at key spots on campus.

In presenting the award, the president of K.A.C.E. noted, "These men must have spent months of research and planning to determine the most noticeable spots on campus to beautify. Each can, footprint, and wrapper was carefully placed to create the impression of having been carelessly tossed aside by some inconsiderate student. Amazing! But then again, that's the type of responsible action you'd expect from professional men."

-Charles H. Divine 863

#### FORTRAN COURSE

A new non-credit Fortran programming course, designed to give Juniors and Seniors a working knowledge of Rose's IBM 1130 computer, has been

(Continued on Page Two)

## Origin of St. Pat's Day

The Saint Patrick's Day celebration here at Rose is one of the oldest school-wide functions. The idea for the celebration originated in several engineering colleges early in this century. Saint Patrick's birthday is celebrated by all loyal engineering students because he is said to be the greatest engineer in history. When Saint Patrick came to Ireland about 430 A.D., the island was infested with all sorts of snakes and reptiles. Saint Patrick

(Continued on Page Two)

#### **BOILER BREAKDOWN**

If a lack of heat is noticed, the bulletins asking for conservation of heat in the Student Union and the three new dormitories has caused some curiosity, the following explanation is offered.

On Monday, January 23, at 11:30 p.m. Mr. Paul Giffel, Superintendent of Buildings and Grounds, received notice from the night watchman that one of the two boilers used to heat the Institute's new complex was not working properly. The broken boiler was shut down and the load was put on the remaining boiler.

The boilers are of the fire tube type which circulate hot gases in the heating tubes. Just at the boiler where the tubes originate, a leak developed that caused the shut down. An inspector would not approve repaired tubes, so new tubes were ordered from the boiler manufacturer. The manufacturer, at last report, was to have the boiler repaired during the first week of February.

Mr. Giffel warned that if the temperature drops drastically while the boiler is broken, every effort will have to be made to conserve heat since the single boiler must not be over worked.

#### INSTITUTE INKLINGS

As editor of the INSTITUTE INKLINGS I have made the following appointments for the Winter Quarter, 1967. Taken into consideration for the appointments were ability, past experience, and above all, desire to work for the betterment of the newspaper.

Editor—Chuck Webb Assistant Editor—Stephen Mitchell News Staff—Bill Kane, Ed.; Don Spatz, Jim Wong, Eric Dany, Mike Nugent, Jay Nilsson, John Berry and George Shaver. Feature Staff-Denny Fritz, Ed.; Roger Evans, Dwight Klippel, John Greve, Jim Tageson and Casey Gaines.

Sports Staff-Tom Curry, Ed.; Joe Swift, Dave Hohlfeldt, Ken Burkhart and

John Lysen.

Business Staff-Benn Bradburn, Mgr.; Stephen Ricks and Tom Duff.

Advertising Staff—Beam Braubin, Mgr., Stephen Ricks and Tom Duff.

Advertising Staff—Wade Scott, Mgr., and Mike Morris.

Photography Staff—Stephen McLellen, Ed., and Sidney Stone.

Circulation Staff—David Harshbarger, Mgr.; Jim Houdeshell and Ron Moore.

Editorial Staff—Denny Fritz, John Elzufon and John Andis.

Advisors—Mr. Daugherty and Professor Haist.

#### IN REBUTTAL?

The primary aim of the newspaper is to arouse student interest to a point where they will be willing to act instead of just talk. The criticism being presently leveled at myself has some basis. I will not, however, again take the blame of past mistakes made by members of my staff. Rehashing the past trials and tribulations of the newspaper will do no one any good. I merely ask that if so many people are concerned over the newspaper's content, why didn't you join the staff two weeks ago or anytime last quarter. Many people seem to be ready to quickly criticize others, but are the willing to also work some to make the paper better. Judging from the staff applications I have received, I think not! If you have just criticism, I accept it gladly. If you merely want to vent some antagonism toward myself, I do not. The newspaper is not a medium for personal feuds.

Many of the students seem to consider me as being on the side of the administration, but the administration thinks that I am on the side of the student. That puts me in the middle. I have tried, and always will try to stay here. An editor at this school cannot take sides. There are many things which have not been done by the administration, and there are a number of things they have done which need to be criticized. Next week I will formally level some criticism which I believe to be just at several items.

The newspaper needs the continued support of the student body. Due to the length of the letters to the editor this week, I must now ask that from now on the letters to the editor will have to be no longer than one hundred words. Otherwise I reserve the right to condense or delete any letters which are longer than that length. I will still try to publish all that I receive.

ORIGIN OF . . .

(Continued from Page One) drove all these terrible creatures into the sea and won wide acclaim as an engineer.

At Rose, the first big St. Pat's celebration was held in 1915. Before 1915, Rose students had annually cut classes on St. Pat's Day, but no organized activity was held. Back then, upperclassmen paddled the frosh when they broke such traditional rules as the wearing of beanies. The paddling rule was suspended in December of 1914 as a result of a mass paddling. St. Pat's Day marked the resumption of the paddling rule. A parade was planned to liven the celebration. For this parade, the first Rosie was built, and the first Rose band was organized.

After the parade at 7:00 P.M., the first of a long series of talent shows was held. This show consisted of musical groups and comedy acts-much like our Rose Riots.

To "revive" school spirit, an organization called the "Order of the Elephant" was instituted. The seniors were the most exalted, and given the name "Royal Blacks." The juniors were called the "Embryo Blacks" while the sophomores were the "White Elephants" because they took care of Rosie. Last came the "Followers of the Elephant"-the frosh.

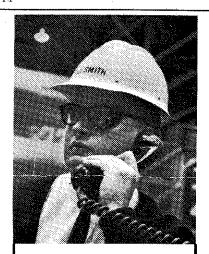
The whole show was quite a success, but when the students emerged from the theater, someone had stolen Rosie. No one has ever found out what happened to this first mascot. After much mumbling and grumbling, the Rose students returned to campus to await the return of Saint Pat's Day.

FORTRAN COURSE . . .

(Continued from Page One)

instituted this quarter. The two-perioda-week class originally started with twenty-five students but has now grown to a total of seventy-five.

Since the present Juniors and Seniors were computer-trained on the now outdated Bendix computer, the need for a refresher course on modern computer programming was evident among upperclassmen.



#### TED SMITH

(B.S.M.E.) of the Bethlehem Steel Loop Course knows where the action is. He's on the move at the nation's most modern steel plant our Burns Harbor Plant in northern Indiana.

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STEEL



#### Letter To The Editor

Editor Webb:

When I began reading the latest INSTITUTE INKLINGS with its new format, I thought it showed quite a bit of imagination and originality-something which the paper has only had flashes of previously. I even allowed the obnoxiousness of the editorial on being a gentleman to go by without raising a hackle. The paper looked like it was going places in spite of the incompetance shown by the editor in previous issues (i.e. Apologizing for not being a responsible editor in not having read articles printed, then sidestepping the blame by accusing the author of the article of cowardice for not signing his name. Also, such comments as "a liberal paper on a conservative campus" have shown this. The administration and faculty would never permit a "liberal" paper on this campus, as was shown two years ago when the editors of such a paper were put on social probation).

However, the editor's note beneath Mr. Shaw's letter completely turned my stomach and caused me to lose all faith in our newspaper. Mr. Shaw was showing a concern for the upkeep and beauty in facets of our campus that seemed to have been overlooked in the massive expansion program going on here. Few Rose men show a concern for these aspects—much less write about them. Editor Webb burned Mr. Shaw to a cinder in a very caustic note that was neither appropriate nor related to what Mr. Shaw had to say.

Editor Webb, a major part of being a gentleman and a Rose man is showing consideration for other people. This is not done by publicly kicking them when they have no chance for rebuttal and no reason to be kicked.

The solution for making a fool out of yourself, and the paper, is not a bitter little editor's note nor a sobbing apology for being so stupid. Rather a short period of introspection, followed by concentration on the mechanics of publishing the paper is the

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answer. Never again should you open your mouth as spokesman for the paper; instead leave that to someone who is a gentleman, who appreciates other people's feelings, and who doesn't run from the responsibility of his position.

—Lee Peters

Class of '67

Editor;

Having just finished reading your rather terse comments at the end of Mr. Shaw's article, I feel compelled to dash off a composition of my own. It seems that two rather well written, truthful, and critical articles have drawn rather harsh comments from the editor of this paper for their observations about "The New Rose". Granted, we must take the good with the bad. If we want the prestige, esteem, and, money that an engineer makes; we must be willing to accept to at least a degree the rather rugged task of getting an engineering education and its often drab social life.

The big discussion comes when students try to second guess the faculty as to the best method by which to achieve the goal of engineering excellence, both in and out of the classroom. One big problem is class size. Page ten of the 1966-1967 Rose Bulletin states: "Class and laboratory instruction is conducted in small groups." Classes with from thirty to fifty students aren't exactly small though, and speaking from experience I can truthfully say I've had only one class in five quarters with less than thirty members. Lab classes would seem to land in this same general category. It would appear to the writer that much of a graduate's success would depend on his skill in laboratory work. Altho theoretical knowledge is extremely important, it strikes me that the zero to twenty percent that has been assigned our lab work through second quarter sophomore studies is a little too little. In fact this amount of credit almost makes the five to eight hours one spends involved in lab work useless.

When students satirize the state of some of the unfinished "completed" construction it seems to bring a great howl of disapproval from some one other than just the editor. We were told when we came to Rose that the institute was going to, with us doing

the work, show us how to become leaders. We were to treat the school with respect and the faculty likewise. In turn we would be thought of as men. If we had any complaints they would be heard so long as they were reasonable and reasonably presented.

It seems that for some reason though that many of the things students say, do, or ask for are taken as a direct challenge to either the integrity or the status of the faculty, whether or not they are meant to be. It would seem that if Rose is the best engineering institute in the country for undergraduate engineering, then its students must be pretty darn good also. If this be the case then their gripes, ideas, and remarks are worth being heard and answered by more than a caustic, seven-line editor's note. They might even rate a once monthly or biweekly comment in the form of a "The president speaks" column?

> Respectfully, Morg Bruck "69"

Dear Sir,

I was very pleased with the latest issue of the Inklings. The format was very attractive and all the articles were very interesting. However, there was one point which particularly displeased me. This was the editor's note at the end of Ed Shaw's letter. The note struck me as being very unnecessary and a destructive criticism of Ed rather than a constructive comment on the article itself.

As Ed said, he did not "propose to be a designer nor a great engineer." Possibly he was wrong with some of his facts, but the point of his article still remains. Some of the contracted work done on this campus has not been of acceptable quality. In fact, Ed forgot to mention the poor condition of the parking lot behind the new dorms.

These defects are obvious, even to those who know next to nothing about concrete, such as myself. Ed does not have ". . . to know as much about concrete as he purports to us," to write about these things. Everyday I have to wade through the mud washing down from the hill outside the new dorms. I don't have to be an expert to realize this is not as it should be.

In general, letters to the editor is an opportunity for a person to make

(Continued on Page Five)

#### A History of Sports At Rose

PART 2 of a series by John Yarish

With the turn of the century and the decade following it, came a marked concern about the idea of school spirit and team support. Spirit played a major part in athletics and the presence or absence of it and its importance were the subject of many conversations at that time.

Did it really make any difference if you spent a Saturday afternoon watching an athletic contest, cheering, making noise, or in some way showing your loyalty and support of the team? Was college life supposed to be all study? The "greasy-grind" who spent all of his time studying was looked down upon by those more interested than he in varsity athletics. In 1903 this was a leading issue on campus and it led to publication of an article on the subject in the Rose Technic (Vol. XIII, No. 1). In it, Athletic Coach A. F. Holste criticized the student body for their lack of concern for the team. Naturally, he was proud of the boys who worked under him. He was known as a tough coach and the team felt it. He even criticized the team in this particular article for their lack of "drive" and it was his belief that soft practices would not win ball games.

Rose Poly was over twenty years old at this time and available records indicate that not once, in any sport, did we finish with less than a .500 season during the years 1883-1910, so there is definitely something to be spirited about.

Just like today, the score did not tell the whole story about the game. Often the contests would result in lopsided scores, such as the Engineer's basketball defeat of a local YMCA in 1904. Or on the other extreme, a cage battle with Purdue the same year ended in a 19-18 loss.

From 1900-1910, the Fightin' Engineers consistently broke records in their specialty: track and field. Pole vaulting the seemingly insignificant height of 8' 6' was considered exceptionally good in this era, as was a 5' 2" high jump. A man who could put the 16-pound shot 30' 10" was almost guaranteed to capture first place in that event.

Broad jumps of 10' 2" are of no comparison to the 27 foot jumps of today, yet those distances were the record setters back then. A 5:17 mile was also a trophy winner for Rose.

So there was something worth cheering about during the decade 1900-1910. Rose was a powerful and respected team in those days.

Next week: sports during 1910-1920.

#### FRATERNITY BASKETBALL

Sigma Nu scored a decisive 62-43 victory over ATO Sunday afternoon to take over sole possession of first place in the fraternity league standings; while AXA fell from the ranks of the undefeated earlier in the day in a hard fought 51-50 loss to TX. The newly formed Triangle team has yet to be initiated into league play.

Fraternity Standings:

	W	i
EN	1	0
AXA	2	1
TX	1	2
ATO	1 .	<b>2</b>
Tri	0	0

#### MAJOR LEAGUE BASKETBALL

AXA and Speed Hall both extended their intramural records to 4-0 with wins last week, AXA overwhelming Off Campus and Speed downing ABCD.

I.M. Major League Standings:

	W	L
AXA	4	0
Speed	4	0
EN	3	1
ATO	3	1
ABCD	2	3
Faculty	2	3
TX	1	3
BSB	1	4
O.C.	0	5

#### I.M. MINOR LEAGUE BASKETBALL

The Speed II team has increased its streak to five wins in as many starts in minor league play and is still controlling the first place position.

I.M. Minor League Standings:

W	L
5	0
4	1
3	1
	4

	W	با
ABCD I	3	2
Speed III	$^2$	2
ABCD II	2	2
AXA II	$^2$	2
Speed I	2	3
ATO	1	3
AXA III	1	3
AXA I	1	4
Off C	1	4
EN	0	3

#### I.M. MAJOR LEAGUE VOLLEYBALL

ABCD remained at the head of the major league volleyball race with another win which extended its streak to 3 wins. TX follows closely behind with a record of two wins without a loss.

I.M. Major League Volleyball
Standings:

oranamga.		
	W	L
ABCD	. 3	0
TX	2	0
ATO	2	1
Fac.	2	1
BSB	0	1
$\operatorname{Speed} olimits$	0	2
AXA	0	3

TX is at the top of the minor league volleyball race on the strength of a win in the only contest it has played this year. ATO, BSB, and Speed follow closely behind with a record of two and one.

I.M. Minor League Volleyball Standings:

-	ο.	
	W	L
TX	1	0
ATO	2	1
BSB	2	1
$\operatorname{Speed} olimits$	2	1
Fac.	1	1
ABCD	1	2
BSB	1	2
AXA	0	2

#### IN REVIEW . . .

January 7: Rose-93 Wabash-99
Seeing Wabash in what perhaps
might be their best game of the season,
the Fightin' Engineers were unable
to cap on their long time rival from
Crawfordsville, Indiana, in over time
play. Wabash managed to take a six
point lead during the final five minutes to claim their victory over Rose.

January 11: Rose-82 Wabash-10l A hard playing squad making only (Continued on Page Six)

# On February 13, explore engineering opportunities as big as today's brand new ocean

Talk with on-campus Career Consultant from Newport News—world's largest shipbuilding company—involved with nuclear propulsion, aircraft carrier design, submarine building, oceanographic development, marine automation, all the challenging advances on today's brand new ocean. The New York TIMES calls this "the last earthbound frontier" with "profit possibilities as big as the sea."

Learn what our half-a-billion-dollar order backlog means to you in terms of high starting salary and years of career security with no lid on your future. With orders up \$80,000,000 in five months, our need is urgent for imaginative men in all the disciplines listed here. Men who like tough challenges and individual responsibility.

Ask about opportunities for advanced degrees and research. We're next door to Virginia Associated Research Center with one of the world's largest synchrocyclotrons, where graduate engineers study high energy physics. We're across the harbor from Old Dominion College, offering graduate courses in Microwave Theory, Solid State Electronics, Nuclear Engineering. Nearby, too, is the Extension Division of the University of Virginia offering courses toward credits for masters degrees. And within easy driving is The Virginia Institute for Scientific Research, a world leader in solid state physics. Linked up with these opportunities, Newport News offers scholarships, tuition grants, advanced study and research leaves. Ask about them.

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Our Career Consultant,

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#### Newport News



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#### LETTER TO THE EDITOR . . .

(Continued from Page Three) public his ideas on a certain subject. If an editor wishes to comment upon these ideas, he should do so in an editorial. A note at the end of a letter, such as the one in question, should only be used to clarify something in the letter, and not as a personal attack on the writer. It should be used to inform the reader of certain facts the writer of the letter did not have in his possession.

An editor's job is to edit. This means he should remain neutral with respect to the articles he prints except in the one place reserved for his, the editorial page or the editor's column.

-Robert H. Janes

After reading the article in last copy of the Inklings, I would like to compliment you on the new format and new paper. It has improved the ease and convenience of reading the paper.

Concerning the letter to the editor in the same issue. I know very little about how the "wall" was constructed, but I do know how it was not constructed. After dark if you have ever tried to descend to the steps from the lounge, you know it is pure chance if you make it without falling. There is no light for the steps. The only way I have accomplished this is counting the steps (less than 10 of course). With the many activities taking place in the Union, I think it would be quite advisable if some steps were taken to correct the situation.

-Ralph Moore

#### FEDERAL GRANT . . .

(Continued from Page One) such devices could be installed along the rivers and streams throughout the nation at potential sources of pollution to keep the waterways clean.

### Norman's Barber Shop



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5 Barbers

#### SPORTS

#### SPORTSLIGHT

by Tom Curry

Today's world is a fast moving world. People are impatient. They are in a hurry. They like things to happen quickly and spectacularly. This typifies the American sports fan. The avid sports fan "eats" and "drinks" sports and action is his favorite dish. Therefore, going on this premise, it is safe to assume that the most popular sport would be the one with the most action.

For better than sixty years, base-ball has been the National Pastime. Today there is a new king. Football has won over the hearts of Americans according to recent popularity polls and attendance Statistics. Baseball has been in a tail-spin for the past few years. A couple of years ago the last-place New York Mets had better attendance than did the pennant-winning Yankees. Why was This? The Mets provided fans with the excitement and action they desired. Fans marveled at the thousand and one way s that the Mets could lose ball games.

Why is baseball on the downswing while football is coming into the limelight? This question can be answered by looking at the very nature of the two sports. Football is a fast-moving action-packed, ruff-and-tumble type sport, whereas baseball is a slower moving sport. It may be after three or four innings before the fans see their first bit of real action. Pitchers may throw several pitches to a batter before the batter either makes an out or reaches base safely. Now baseball is not a dull game! The home runs, the spectacular fielding plays, the stolen bases, etc., have made baseball a very popular sport through the years. However, football has provided even more thrills and excitement than baseball. Every play is a daring play. The whole complexion of a football game can change in a matter of seconds. What can happen? A kickoff can be returned for a touchdown. On the other hand, a kickoff can be fumbled and recovered by the kicking team. A quarterback can throw an eighty yard touchdown pass. Also, the defense

can intercept a pass and run it back for a touchdown. The offensive full-back can run through the middle of the line for fifty yards and a touchdown. A defensive lineman can pick up a fumble and run it back for a score. Field goals, punts, jarring tackles, teeth-rattling blocks and bruising line play are just a few of the things which make each play of a football game captivating.

Every weekend from September to January, hundreds of thousands of football enthusiasts crowd into their favorite high school, college, or professional football stadiums. Millions more sit for hours on end during the weekend watching "their" teams play. In fact an estimated twenty million fans had their eyes "glued" to the "tube" on Super Sunday.

That brings us to the question "What is the fate of baseball?" Baseball is not, by the farthest stretch of your imagination, dying. Nevertheless, in order to regain its former prominence, baseball will have to become a faster, more action-filled game.

#### IN REVIEW ...

(Continued from Page Four) minor errors caught Rose off guard and defeated the engineers with an impressive 19 point lead. Rose battled one of the best teams they will come across this season and hampered with a stroke of "bad luck" was never able to give the Marian team a really good game.

January 14: Rose-100 St. Francis-81

An injury stricken St. Francis team witnessed the Fightin' Engineers "fightin'" one of their better games of the season as the Rose squad maintained a 6 to 12 point lead the entire game. With only minutes remaining in the final period of play the varsity boys yielded to the reserve team giving them the honor of handing defeat to St. Francis with a 19 point margin.

January 17: Rose-81 Greenville-76
With the lead changing hands several times during the first half, a "fired-up" Rose squad returned to the floor in the opening minutes of the second period to show what they really could do and gave the Rose fans a very impressive show. The lead stayed with the engineers all during the second half with Greenville coming within 5 points of proving themselves in the final minutes.

Both teams shot equally well from the field with the victory for Rose coming from the free throw line. Rose controlled the boards with the total number of rebounds while Greenville led the victors in the total number of personal fouls; 19 as compared to Rose's 10.

	F.G.	F.T.	P.F.	Reb.	Points
Curry, Tom	7	4	1	12	18
Pettee, Jim	2	2	2	8	6
Shaver, George	4	3	3	12	11
Yeager, Dave	8	1		3	17
Ings, Don	1	2	1	1	4
Wones, Jerry	1	7.	3	4	9
McNeely, Perry	7			6	14
Stockwell, Rex	1				2
TOTAL	31	19	10	46	81
	+2				

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