

# THE LIBRAZETTE

FOR EMPLOYEES OF LIBRASCOPE GROUP • GENERAL PRECISION, INC.

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MAY, 1965

## High Geared Proposal Effort Improves Business Outlook

A stepped up proposal effort has been the order of the day since the beginning of 1965 for SED Advanced Programs, according to vice president R. O. Vaughan. And from all indications, the potential new business market is a healthy one, he added.

"Since the first of the year we have seen a marked increase in the number of bid solicitations and new business opportunities which we have received from both prime government agencies as well as prime contractor companies," Vaughan said.

The result has been a substantial increase in proposal activity during the past three months, with much of it falling into areas of Librascope's traditional competence in ASW and related areas.

In the area of new business, major bid activities have focused on digital communications. The most significant effort has been the proposal effort for hardware implementation for the AUTODIN Communications Network for the Defense Communications Agency and the Army. Much of SED's experience on the 473L Air Force Command and Control System, now in the Pentagon, was applied directly to this proposal effort, Vaughan pointed out.

Another 473L offshoot is the market potential for the large mass memory developed for the system. "We are currently

optimistic about our chances for business in this area," Vaughan said.

Active interest is also being demonstrated on the potential for the L-2010, our lightweight digital entry. A number of proposals have been submitted for overseas applications as well as for specific requirements in the U.S. defense effort, Vaughan told LIBRAZETTE.

"We have assigned top priority to the new business area, with long-range programs presently being supported by our in-house research effort," Vaughan said. "We have every confidence that as a direct result of this increased effort and additional market penetration, the bookings which were established at the beginning of the year will be exceeded," he concluded.

## CCS, Components Now in Glendale

Easter weekend saw the completion of the move of Librascope's Components Division and Commercial Computer Sales from Burbank to Buildings 12 and 16 in the Glendale Rodier complex.

West Coast operations for Librascope are now consolidated in Glendale, with the exception of the plating facility located at 158 W. Verdugo Avenue, Burbank.

With the completion of the move, and the release of Buildings 8 and 9 in Burbank, occupancy costs will be reduced from \$90-100,000 annually, it was announced by George Bradley, Components Division manager.

Following the recent move, the ex-Burbank units are now physically located as follows:

Building 12—Commercial Computer Sales, Programming, Customer Training, Computer Refurbish Shop, Field Service, and Plant Maintenance;

Building 16—Components Manufacturing, Quality Assurance, Stores, Shipping and Receiving, Purchasing, and Engineering and Administrative offices.

## R&SC, Receives New AF Research Contract

A new study contract for \$81,430 was recently awarded to the Research and Systems Center by the Systems Engineering Group (RTD), Wright-Patterson Air Force Base, Ohio.

The R&SC contract calls for research on the application of realistic neural analogs in the study of small ganglia. Dr. E. H. "Ted" Lewis has been named principal investigator for the studies, including the development of an analog simulator facility.



**FAMOUS ASTRONAUT** — John Glenn greets Harold Timken, Jr., manager of SED's Washington Engineering Branch at recent National Space Club luncheon honoring the third anniversary of Glenn's epoch-making flight into space. Timken is a founder, past president and governor of the club. See pages 3 through 6 for the feature on the people and products at WEB.

# 'Surveyor' Spacecraft Display Board Developed by SED Engineering Team

In conjunction with Link-Western Development Laboratory, Palo Alto, SED Engineering is currently engaged in the development of the Spacecraft Television Ground Data Handling System associated with the Surveyor Spacecraft program for Jet Propulsion Laboratory.

According to SED chief engineer J. L. Deitz, the major portion of the Librascope effort centers on the design development

and fabrication of a large status display board which will be located in the Space Flight Operation Facility (SFOF) at JPL.

The status board will display alphanumeric information under computer control which has been reduced from telemetry data received from the Surveyor Spacecraft. The data received is from the television camera system within the spacecraft and will depict camera elevation, focal lengths, iris, and shutter speed, and is used to control and monitor the operation of the television cameras, Deitz said.

Earlier, Link delivered a portion of the system so that it could be used for the Ranger 9 shot. With the availability of the Link equipment at SFOF, television pictures were immediately available for viewing by scientists and the general public. Much of the success of Ranger 9 data recovery and picture quality was due to the GPI effort.

## Seminar Underway For 44 Managers

"Our future as individuals and the future of this company depend to a large degree on how effectively we are able to manage. Consequently, it is of vital importance that we continue to sharpen our managerial abilities and apply them to meet company objectives."

So said R. W. Lee as 44 Librascope managers recently embarked on a ten-week management training program, under the direction of Dr. Cyril O'Donnell, a leading authority in the business management field. Dr. O'Donnell is professor of Business Organization and Policy at the UCLA Graduate School of Business Administration.

Key subjects for the 25-hour program include effective planning, staffing, organizing, controlling and directing. The seminars, which end next month, were coordinated by Librascope training director W. P. Strong.

## Dr. Gottlieb Addresses High School Students

Occupation: Physicist.

That was the subject of Dr. Peter Gottlieb's talk to 60 students from Burbank and John Burroughs High Schools recently. Gottlieb, staff member in Librascope's Research and Systems Center, made the presentation as part of the Burbank school's annual Career Day program, designed to give interested high school students first hand information about occupations which they might wish to pursue in college.

# LECU Announces New Policy for Liberalizing Loans

The board of directors of the Librascope Employees' Credit Union recently approved new liberalized eligibility and loan policies in an effort to stimulate present business and to increase total membership.

The new policies eliminate the need for a 90-day membership prerequisite to qualify for a loan and reduces interest rates in nearly all cases. Of interest to potential borrowers are the increased loan amounts now being offered accompanied by an extended length for repayment.

According to board president E. D. "Buzz" Newman, the new lending policies will provide a real savings in loan cost to its members and provide terms which can fit nearly every budget. Information concerning the new policies was recently distributed and the Credit Union is prepared to handle what expects to be an influx of new accounts, Newman added.

LECU is a state chartered, non-profit organization which offers its members an opportunity to establish a systematic savings program as well as to finance consumer purchases, real estate and other worthwhile needs at reduced costs.

Dorris Eberle, Credit Union manager, can be reached on extensions 1242 or 1243, and will provide any prospective member or loan applicant with whatever information is needed.

## McAndrews, Stern To GPI Directorate

Frank C. McAndrews and Dr. Marvin Stern were recently elected to the board of directors of General Precision, Inc., it was announced by J. W. Murray, chairman.

McAndrews, Librascope vice president of engineering and research, was formerly a staff specialist in guided missiles and space vehicles in the Office of Secretary of Defense—Research and Engineering. He holds the Distinguished Service Award from the Assistant Secretary of Defense for contributions to missile and space systems engineering.

Dr. Stern is president of GPI's Aerospace Systems Division, Little Falls, N.J. He was previously a deputy director of defense, research and engineering, in the Department of Defense, and has been a consultant for the Department of State, Department of Defense, the Central Intelligence Agency, the Atomic Energy Commission and the President's Advisory Committee.



THE ORGANIZATION responsible for guiding things social and recreational is the 1965 Precisioneers, shown above. In front row are the new officers (left to right): Steve Jackman, representative at large; Fred Killips, outgoing president and club advisor; Dave Gardner, president; Jack Naimoli, vice president; and Lee Norvell, secretary. Back row, left to right, are this year's building representatives: John Miley (17), Bob Gonzales (2), George Poppa (1), Helen Griman (15), Kay Small (17), Judy MacDonald (3), Charlene Page (3), Precisioneer coordinator Eilene Brown, Cleo Moore (1), Pat Korecky (1), and Doris Chase (17).

# WEB:



## *Designers and Developers for All Things Optical*

The lights often burn long into the night at 12701 Twinbrook Parkway, Rockville, Maryland, and it is not due to a careless custodian.

That's the address of WEB—Librascope's Washington Engineering Branch—where people come to work early and stay late. Simply because there is much to be done.

The branch started its major growth pattern in December, 1963, when it moved to its present location. It was chartered to design, develop and fabricate geometrical optics and related electronic and electromechanical systems and instrumentation. The branch now numbers 67 employees.

Fully air conditioned, the one-story building houses a machine shop, assembly area, computer facility, an optical grinding area, an environmentally controlled optical test area, and engineering, drafting and administrative offices.

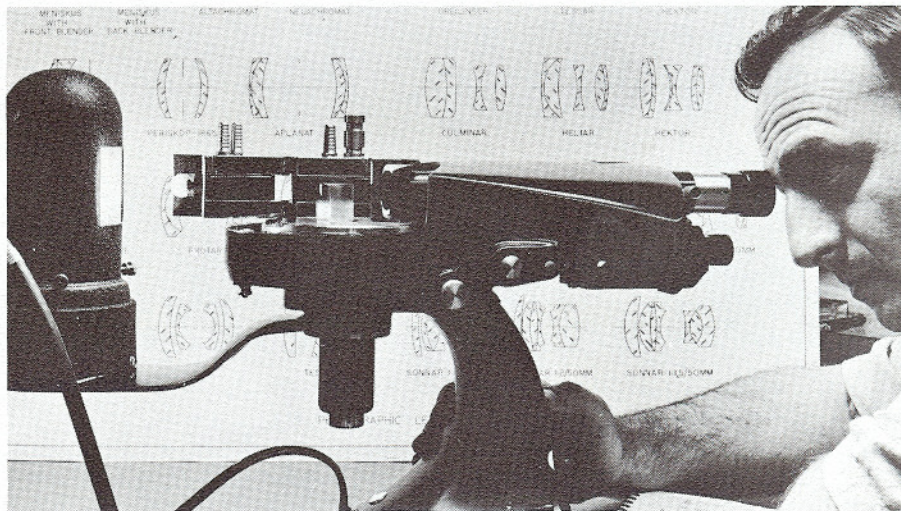
But modern facilities do not a successful operation make. They are the result of a talented team needing space and equipment to perform its work. And there is plenty of work at WEB. Presently in various stages of development:

- design, development, fabrication and test of a telescope and sextant simulator for the Apollo mission simulator (under contract to GPI-Link);

- design and development of optical system for a V-angle photogrammetric reader for use on missile test analysis at White Sands Proving Ground (under contract to GPI-Link);
- design, development and fabrication of a quantity of digital-to-resolver converters for the Apollo program (SED & WEB for GPI-Link);
- design and manufacture of optics and mechanical cells and structure for OpCon center display systems (under contract to General Precision Laboratories);
- design and fabrication of visual optical projection system for Budd Co., under a Navy contract for simultaneous display and tracking of various aircraft; and
- two contracts from NASA Guided Space Flight Center, including a design study of optical alignment techniques for the advanced orbital solar observatory, and the design of an optical projection system.

So, no wonder the lights burn late at 12701 Twinbrook Parkway. No wonder the hours are long for many of the people who work there. No wonder a recent visitor on his return to Glendale called it "optics a go-go." There is a great deal going on in this building 16 miles from the White House.

For a look at the people and products at WEB, see the following pages.





**HEADING THE WEB** effort is branch manager Harold A. Timken (above). A well known figure in the Washington area, Timken directs the acquisition of key engineering and optical specialists — as well as a houseful of new contracts.

# WEB:

## List of Projects Grows for the Washington, D.C. Extension of the Surface Equipment Division



**MAKING SURE THAT** a particular program is moving along on schedule and within cost is the function of the program management review team pictured above. Left to right: Ted McCarthy, technical writer; Al Madello, design and drafting supervisor; Dick Johnson, chief program manager; Dan Englehardt, contract administration supervisor; Carl Plath, technical documentation supervisor; Fred Merkel, senior staff engineer; and mechanical engineer Dick Clark.



**WHILE THERE IS** an abundance of "think" going on at WEB, the technical competence of a group of highly skilled artisans constitutes a critical part of the branch operation. In photo above, Marshall Wulf, production supervisor, discusses a new machining procedure with Robert Carro, technician.



**FROM A SOUND BASE** in optical theory comes the design and ultimate development of WEB products. In photo above, Brad Oland, senior optical engineering associate (seated), and Chet Brandon, chief engineer, utilize LGP-30 computer in solving lens design problem.

## Talented Team on the Go; an Increase in Head Count, an Increase in Capabilities



**ENGINEERING LIAISON** is an important element in WEB's day-to-day activities. Shown above is the senior engineering staff holding one of its regular meetings. From left: Fred Merkel, sr. staff engineer; Harry Prival, electronic design supervisor; Chet Brandon, chief engineer; Rudy Schatzmann, opti-mechanical design supervisor; and Juan Rayces, chief optical design engineer.



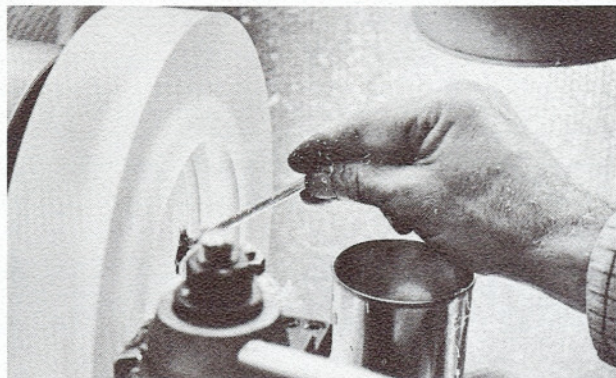
**EVEN THE BEST** engineered, best designed systems must be kept within the context of certain economies. Dick White, WEB purchasing and material supervisor, provides this prudent guidance. White also handles subcontracts with outside vendors, including vendor surveys.



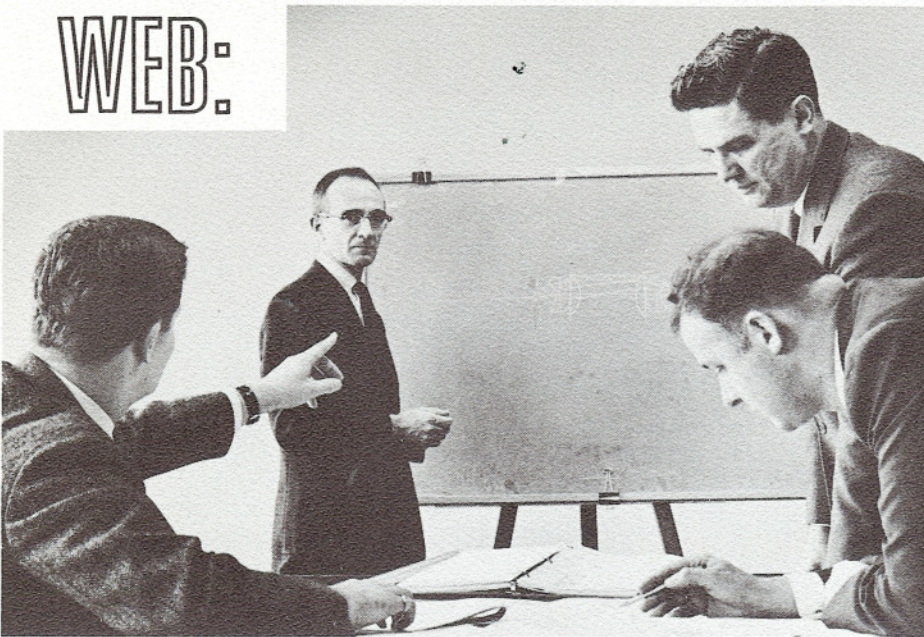
**HELPING WEB** technical personnel cut down much of the time-consuming calculations are the Librascope computers stationed at the facility. Above, optics engineer Ed Price analyzes optical design data from LGP-30 printout.



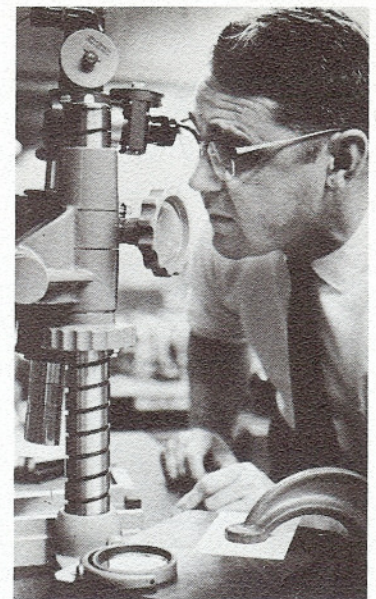
**INDIVIDUAL SKILLS** and high precision equipment at WEB form a dynamic combination. In photos above, Pat Morgan inspects optical lens element (left) and technician Duane Mock, carefully goes over optical generating equipment (right).



# WEB:



**THE ALL IMPORTANT** matter of new business is a regular part of the WEB effort. Joe Kennedy, new programs manager (left), directs a question to chief optical design engineer Juan Rayces. At right, branch manager Hal Timken and mechanical design supervisor Rudy Schatzmann go over optical design being proposed to a new customer.



**THE BEST WAY** to acquire new business is to have a record of proven, reliable performance. Above, Larry Taylor, mechanical-optical assembler carefully re-checks his work.



**HIGH PRIORITY** effort at WEB is the Apollo Mission Simulator Telescope. Dick Clark, Apollo project engineer, is shown reviewing the program's critical path scheduling.



**IF WASHINGTON** Engineering seems to be a "man's world" don't be misled. The female element plays a big role, too. Shirlee Murray (at left), for instance, handles a multitude of chores. Among her assignments: WEB administrative assistant; office services and secretarial supervisor; personnel representative; and security officer. At right, "wiremen" Barbara Piper and Patricia Morgan complete a wiring assembly.





## Harry C. Hates It, But He's Picking Against the Dodgers

Is Henry A. Callaghan a Dodger fan? Will the sun rise tomorrow? Are there fresh fish in the sea? Will the swallows return to Capistrano? Do the Beatles need haircuts?

Yes, dear reader, H. A. "Harry" Callaghan is a Dodger rooter—and of Brooklyn vintage, yet, which puts the whole thing in capital letters. Historically, the Flatbush fan is the truest, dearest supporter any team could have. His never-say-die enthusiasm is legendary.

And it's that way in spades with Harry. But this year he is picking against them. Even in the shadow of Dodger Stadium, the Mecca for Los Angeles baseball, Harry nodded his head and said:

"I don't think they can beat the Cardinals."

True, the Giants have power, and the Braves, Reds and Phillies are all well balanced teams. But if Johnny Podres comes back with a big year, if Willie Davis and John Roseboro can hit like they did last

year, if Kennedy and Osteen—the winter trades for Frank Howard—make the grade, if Ron Perranoski adds muscle again to the bullpen, and if Drysdale and Koufax are ready for big years, then the Dodgers, according to Harry, can wind up in second place. But again he returned to the mournful refrain:

"I don't think they can beat the Cardinals."

The big weakness, as Harry sees it, is a lack of offensive muscle on the 1965 Dodgers. They are quick and they probably have the best pitching staff in either league.

"I'm afraid we don't have enough punch to take the pennant," says Harry. "But we really didn't have a hard-hitting team in 1963 and we won the league and beat the Yanks in four straight. Maybe pitching and speed will get us through."

The real name of the game, as Harry views it, is pitching. And the rise or fall of O'Malley's crew might well hinge on

*(Continued on Page 8)*

## GPE Announces Increased Earnings

General Precision Equipment Corporation announced that results for 1964 showed improvement over 1963 with increases registered in net income and earnings per common share on a slight increase in sales.

Consolidated net sales for the Corporation and its subsidiaries were \$219.4 million compared with \$217.9 million reported for 1963. Net income was \$3.77 million equal to \$2.06 per share on 1,633,201 shares of common stock outstanding. This compares with net income for 1963 of \$2.76 million equal to \$1.42 per common share on 1,643,101 shares.

It was announced that as a result of recent studies, GPI will concentrate computer activities on the engineering, production, and sale of computers to the military, space, and allied markets in which it has an established and growing position. Emphasis will be placed on navigation and guidance, command and control, weapon fire control, and on simulation for military and space programs and airlines.

## JA's Anita Donnelly Receives Scholarship

Wind Song, the Librascope-sponsored Junior Achievement company, had something to sing about this month.

Anita Donnelly, Providence High School senior and treasurer of Wind Song, was the recipient of a \$300 college scholarship from the Junior Achievement organization.

This year's Librascope JA advisers are Les Hey, Bill Walker, Charlie Talbot and Dave Barnt.

**Willing to scramble out on the shaky limb of prediction for the third straight year, Callaghan and his crystal have come up with the following predictions:**

### NATIONAL LEAGUE

1. St. Louis — "They've got pitching, good defense and plenty of power. Should take their second straight pennant."
2. Dodgers — "If we had one more consistent power hitter, it might be possible to win it all."
3. Cincinnati — "Good balance, but they need one more solid infielder."
4. San Francisco — "Big and powerful, but their pitching is a question."
5. Philadelphia — "A good team, but they played over their heads last year."
6. Milwaukee — "A possible contender if the pitching holds up."
7. Pittsburgh — "Still in the rebuilding stage."
8. Chicago — "Plenty of punch, but mediocre defense and weak pitching."
9. Houston — "If they get any kind of hitting, they could move up a notch or two."
10. New York — "The Mets are still a tenth place team."

### AMERICAN LEAGUE

1. New York — "This will make it six in a row for the Yanks."
2. Chicago — "Strong pitching and solid fielding should keep them close to the top."
3. Baltimore — "If the Yankees falter, the Orioles could end up with a pennant."
4. Los Angeles — "Dean Chance and a few surprises might move the Angels up to fourth."
5. Cleveland — "Look like an average team in a rather weak league."
6. Minnesota — "If only they had the pitching to go with their power."
7. Detroit — "The Tigers still have Kaline, but that's about all."
8. Boston — "An important historical city, and they have a baseball team, too."
9. Kansas City — "If they do come up with an outstanding player, he will be traded to the Yankees."
10. Washington — "Even with Frank Howard, they look like cellar-dwellers."

# Librascope Exhibits Products At UCLA Engineering Week

Librascope people and product displays held forth on the UCLA campus during the recent observance of National Engineers Week.

The campus program, sponsored by the UCLA Engineering Society, observed the theme "Engineering for Human Needs," and included several exhibits from leading companies throughout Southern California.

The Librascope display included an exhibit of our L-3055 Data Processing System as well as simulations of ASROC and SUBROC fire control systems.

## Toastmasters Elect New Set of Officers

A new slate of toastmaster officers took official charge of the Librascope club for the next six months at the installation dinner held April 7 at the Carriage House in Burbank.

Outgoing President Bill Tilden, Customer Training, turned over his presidential gavel to Casey Innocenti, SED Purchasing. Other new officers include: Ted Lewis, educational vice president; Herb Meyer, administrative vice president; Herman Graff, secretary; Bill Jordan, treasurer; and Ed Alterman, sergeant-at-arms.

The club, now in its tenth year of oratory, is open to all male employees who are interested in self-improvement, particularly in the art of spoken communication. Meetings are held twice monthly, on the first and third Wednesday evenings, at the Old Town Inn, Burbank.

Also included on the program was an address by R. M. Worthy, staff engineer in the Research and Systems Center. Worthy, who spoke before the UCLA Engineering Society last year on the Auto Beatnik project, discussed "Teaching the Computer to Understand and Write English."

Participation in the Engineering Week program was under the direction of the Employee Relations department as part of our college relations program. This program is presently being accelerated due to projected requirements for engineering graduates this year and the anticipation of a stepped-up college recruiting effort for next year.

## SED Nips Zero For AIRC Trophy

A win is a win, even if it is by only one pin.

And that was the margin of victory for the Librascope bowling team at the Associated Industrial Recreation Council bowling tournament held April 11 at the Panorama Bowl.

The victory, over a five-man team from Zero Manufacturing, won for Librascope the AIRC-sponsored "Challenge Trophy." After several careful countings, total pin count showed Librascope—2972, Zero—2971.

Members of the winning team included Don Daskocil, Hal Dodson, Dick Hannahan, Bob Swanson and Art Kent.

## Cover That Lock!



NOT EVERYONE who safeguards a combination lock is faced with such an obvious intruder as the man in the black cape confronting repro-typist Susan Smith. But whether or not the onlooker has apparent espionage in mind, there are certain daily precautions that should be observed when unlocking a combination lock, according to Security Director Virgil Herold. Among them: when you work a combination lock which secures classified information, be sure no unauthorized person can observe the numbers you use (*unauthorized* means anyone — including other employees — whose name is not recorded in the Librascope Security Office as knowing the combination); keep the cabinet in a position so visitors cannot observe the combination you use; cup your free hand around the combination dial to obstruct the visitor's vision, and; if a visitor is looking over your shoulder, ask him (or her) to be seated, or direct the visitor to another position. In matters concerning security, Herold adds, be courteous but firm in your request for the visitor to refrain from watching you work the combination. It is as rude to watch a custodian open a lock as it is to read over another's shoulder. Should an unauthorized person observe the numbers used on a combination, the Security Office should be notified at once to change the combination.

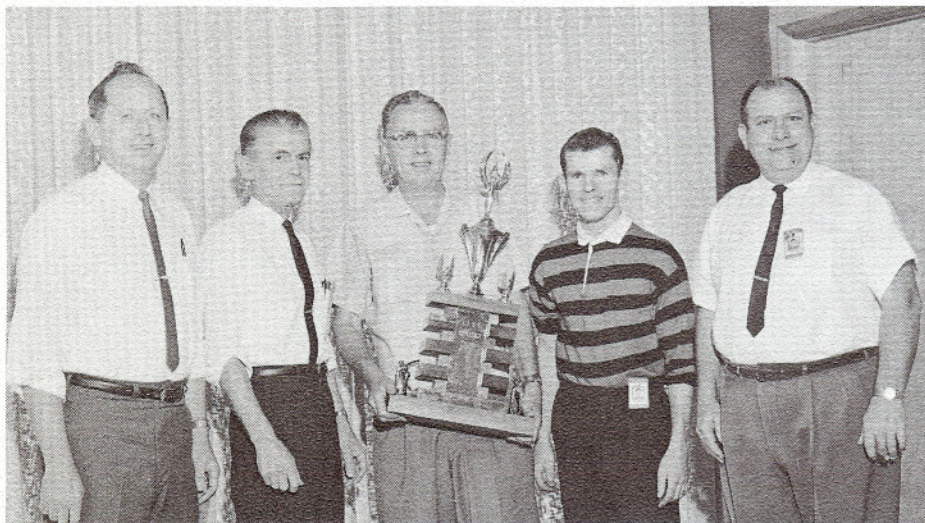
## Callaghan . . .

(Continued from Page 7)

the arthritic left elbow of Sandy Koufax. "If Sandy can win 20 or more, we'll be right in there; but if his arm gives him too much trouble, it's going to be tough. There is no replacing a pitcher like Sandy."

But whatever happens, it will be an interesting pennant scramble in the National League, with any one of five teams capable of winning it, according to Harry. And while he takes a certain amount of pride in his annual LIBRAZETTE predictions, he hopes he is dead wrong this year when he says:

"I don't think they can beat the Cardinals."



VICTORIOUS QUINTET that brought the AIRC bowling championship to Librascope is pictured above. From left to right: Don Daskocil, Dick Hannahan, Art Kent, Bob Swanson, and Hal Dodson.