

**SAN ANTONIO ROOF**—Workers continue the long process of installing a new roof on the San Antonio Office. It is scheduled for completion this month. Last year new perimeter drains were installed and now, when the final touches are done, the office will be "water tight." The project was funded by HTC and is the latest in roofing concepts—EPDM (ethylene propylene

diene monomer) which is applied over insulation. It will provide a drier interior, be more energy efficient and be easily repairable without hot messy tar. San Antonio office officials said the new procedure is "just like mending a bicycle tire tube." Also, officials said, "Hopefully a flooded basement and leaky ceilings will be a thing of the past ... at last!"

## OPM sets new guidelines for snow-days closing

In yet another effort to ease the massive traffic snarls that always accompany a major snowfall in the Washington area, the Office of Personnel Management has directed that early dismissal of employees will be determined according to where they live rather than what agency they work for.

The new guidelines for agencies within the Beltway divide the Washington area into four major sections. Those who live beyond Montgomery, Prince George's and Fairfax Counties are designated as Zone 1 residents; residents within those counties but outside the Beltway as Zone 2; those inside the Beltway but outside the District of Columbia as Zone 3; and those in D.C. as Zone 4.

If a situation such as a major snowfall should call for early dismissal of employees, OPM will contact all agencies inside the Beltway and a dismissal time will be set. Zone 1 employees will be dismissed one hour after metro and local authorities have been notified of the early rush hour. Employees of each succeeding zone will then be released at half-hour intervals.

If a snow or other hazardous condition should develop before the work day begins, OPM will contact local radio and TV stations advising that federal employees should report to work on time; report on time with "reasonable tardiness due to

commuter delays" (excused); that agencies are open but leave may be taken without prior approval (liberal leave policy); or that federal agencies are closed and employees are excused from duty without charge to leave.

Since DMA, like many other federal agencies, has some personnel essential to operations of the agency, these employees are not covered by this new policy. Essential personnel will be notified of their status at least once a year. In addition, some agencies may require attendance of some non-essential personnel and should develop procedures to contact those employees individually.

OPM's new guidelines also dictate that components outside the Beltway should maintain present procedures in compliance with current DMA policy since their traffic and weather conditions may differ greatly from their counterparts inside the Beltway.

## Afro-American observance

"The Constitutional Status of Afro-Americans Into the 21st Century" is the National theme this year for Black History Month.

At the Center, a program will be held on February 12 at 1:30 p.m. in the Erskine Hall cafeteria.

## SES staff members reassigned

Two Senior Executive Service staff members have been reassigned to positions within Headquarters DMA.

Mikel F. Jackson, former assistant deputy director for Plans and Requirements at Headquarters has been reassigned as assistant deputy director, Production and Distribution. He replaces Thomas O. Seppelin, who has retired.

Jackson held key positions with HTC, where he served as chief of the Topography Department and chief of the Program Integration Division prior to joining the Headquarters staff in 1986.

Jackson spent his early DMA years with the Aerospace Center

until his reassignment to the Headquarters as a staff member in the Land Combat Division in 1979. He was selected for the Senior Executive Service in May 1986

Robert N. Smith, DMA Systems Center deputy director, has been reassigned as assistant deputy director, Plans and Requirements, replacing Jackson. He was previously deputy director, Systems Development Group.

Smith also held key positions with the DMA Special Program Office for Exploitation Modernization, a predecessor of the Systems Center, where he was deputy chief and then chief of the

Technical Integration Division. He was selected for the Senior Executive Service in June 1986.

Major General Robert F. Durkin, DMA director made the announcements earlier this month.

## Center provides pattern for Navy Memorial amphitheater map

When the Navy Memorial was officially dedicated in Washington, D.C., on October 13, 1987, the Defense Mapping Agency's work was a center of attraction.

That center of attraction was the large world map on the floor of the amphitheater inside the Navy Memorial. The map, a 100-foot diameter stone carving, is based on a computerized enlargement of an azimuthal projection purchased by the Navy Memorial Foundation from DMA and produced by HTC. The Great Circle Distance centered on Washington, D.C., and plotted on an azimuthal projection, was used as the pattern for the stone engraving.

The Foundation needed an enlargement so that the 7,000 nautical mile concentric circle would be 10 feet in diameter to match a photographic enlargement they had made of the original DMA chart. This was done to insure high definition in the coastlines.

Elliott L. Harrell, from the Mapping and Charting Department, Applications Programming Branch, was assigned the task of

insuring the projection and shorelines were correctly portrayed to meet the Foundation's requirements. Working against a short time frame, Harrell put to work his more than 35-years experience as a cartographer with DMA, and its predecessor organizations, and completed the project well within a five-week deadline to fulfill the Foundation's commitment with its architect.

The engraving on the amphitheater floor is constructed of a two-inch layer of granite weighing 27.71 pounds per square foot, with a total map area of 7,853.98 square feet. It weighs 108.82 tons. New England stonecutters used an advanced technology employing a thin stream of liquid under extremely high pressure to cut the land and sea areas. The cutting method represents a breakthrough in stone cutting which will have widespread and lasting impact on architecture, sculpture and construction techniques.

On the map's scale, one-inch equals less than 12 miles on the earth. A walk across the map

might give one the feel for one of our newest frontiers, outer space. A person whose eye level is between five and six feet above the map is at a scale of 700 to 800 miles above the Earth.

## Dr. King remembered ...

by Barbara L. Walls

On January 15, Center employees were treated to a musical tribute to Dr. Martin Luther King, Jr. The theme for this year's observance was "Living The Dream: Let Freedom Ring!"

This unique program, presented by talented tenor Karl Gipson, consisted of musical presentations interspersed with narration emphasizing Dr. King's role as a "drum major" for justice, peace and righteousness.

Gipson, currently Director of the Kosmopolitan Troubadours, trained at the Los Angeles Conservatory of Music and Arts, the University of Vienna and the Hunter College of New York City. He has appeared in operas, stage plays and motion pictures,

such as "Porgy and Bess" and "Cotton Comes to Harlem."



Karl Gipson

**JUST A REMINDER**

**February—**  
 12 Black History Program EH cafeteria 1:30 p.m.  
 14 Valentine's Day  
 15 President's Day—federal holiday  
 17 Ash Wednesday  
 20 Dining Out Bethesda Officers' Club

**March—**  
 20 First day of Spring  
 27 Palm Sunday

**April—**  
 1 Good Friday  
 2 Passover begins  
 3 Easter  
 Daylight-saving time begins at 2 a.m.  
 9 Passover ends

# A Direct Line



General Durkin

## DMA Director's Column

a vivid and most favorable impression of the people of DMA, highly skilled in a score of disciplines—and obviously dedicated.

The benefits to our agency from such exposure by the senior leadership of the Department of Defense are obvious, particularly in these days of budget constraints and overlapping review of the status of all DoD joint agencies. The importance of displaying our professionalism can hardly be overestimated.

While HTC hosts the SecDef visits, a continuing series of tours by high-ranked domestic and foreign visitors affects virtually every element of this agency, almost every week. It would be easy for us to become jaded by these repeated interruptions to our daily routine, and weary of the special effort required to ensure we are prepared and in first class condition when these visitors come through.

We can't let this happen. We must realize that these visits are but one phase of a planned effort to ensure that all elements of DoD, other government agencies and the Congress are aware of the importance of the work you do.

We are working hard in other areas to expand this understanding. I am planning a series of visits in the near future to carry our message to operational commanders throughout Europe. We also have appointed a number of liaison officers to represent

DMA's interests at major commands, within OSD and in the Office of the Joint Chiefs of Staff to better facilitate the exchange of information.

With the fiscal restraints and possibly even manpower reductions which may be facing all of us in DoD in the next few years, we must continue to tell our story and show our effectiveness as a combat support agency.

So, when you next have to interrupt your regular schedule and clean up your area for visitors, inspectors or VIPs of one degree or another, give it your best shot. Remember what's at stake here. It's the immediate future of your agency—your future.

More importantly, it's the successful accomplishment of the really significant mission of the Defense Mapping Agency that is at stake. We know this better than anyone else. We must keep that uppermost in our minds and do all we can to ensure that this mission is understood by others. With that understanding will come their support.

For the second time in only a few months, a Secretary of Defense plans to visit the Defense Mapping Agency. Secretary Frank Carlucci will be given a "hands on" opportunity to see the latest DMA digital equipment at work and be briefed on the vital output which goes regularly from our production facilities to operational commands around the world. We want him to understand how these combat commands can not perform their missions efficiently without using the products and data generated by this agency.

For some weeks after Secretary Weinberger was given a similar briefing, we continued to get feedback on his enthusiasm over the critical and exacting work being performed by the people of the Defense Mapping Agency, day in and day out and, often, round the clock.

Most importantly, he left with

*From the desk of...*

Colonel Peter G. O'Neill  
Director, DMAHTC

While many of us were shoveling out from under a 6"-8" snowfall on January 8, hardware portions of the long awaited Data Integration Segment were being delivered to the Erskine Hall loading dock. When all deliveries are completed on February 23, we will have received some 257 workstations of three differing capabilities and two large IBM mainframes with associated peripherals. Equipment deliveries have already been made to SXO and LUO.

The large amount of hardware should indicate the impact that this segment will have on the Center. In short, DI will impact on almost every team member, process and procedure in the Center. Over the course of the next 18 months we will be: training personnel (initially about 450 individuals) in the various operational aspects of the system; assisting the contractor and the Systems Center in conducting installation, checkout and testing of hardware and software; and initializing, verifying, and validating six Center and two department management information systems, eight inventory holdings data bases, four production management

Colonel O'Neill, Page 4



At GSS

## Surveyors: A long 'compute' to work

by Major Jon Lippincott

For many years the computer has played a vital role in the processing of geodetic survey data.

The Geodetic Survey Squadron has relied on an IBM mainframe and a DEC VAX minicomputer to accomplish base plant computations and geodetic data adjustments. Unfortunately, these computers are quite large and cannot be transported to the remote locations where GSS surveyors routinely work.

Several techniques have evolved to get raw survey data into a mainframe for processing and final product preparation. The use of portable microcomputers and telecommunications capabilities are key parts of this vital process. Portable computers are used both to transfer data files and as remote terminals in field operating locations.

Since 1984, Robert Wideman, Survey Reduction Branch, has successfully produced final survey data reports from field locations throughout the United States.

Geodetic survey field teams routinely collect data during part of the workday and then relocate to a phone to connect their portable microcomputers via modems to the VAX 11/780 mainframe at Cheyenne, Wyo. This allows the transmission of data or verification of computations during the evening hours and, permits the field party to exchange information with their Cheyenne-based supervisors. The result is a common awareness of work progress by management and prevention of expensive revisits to field locations.

In the last three years portable microcomputers have also found other applications at GSS. A small Panasonic hand-held computer carried by GSS project managers is frequently used to

communicate with the Cheyenne VAX computer via electronic mail. In this way, a traveling project manager can send meeting results and receive reports of survey progress from the Cheyenne office at any time. Electronic mail "messages" sent by the Cheyenne office are easily received and answered by the travelers. An almost continual exchange of information can go on around the clock with no need for the communicators to talk simultaneously or work overtime to overcome work schedule conflicts and time zone differences.

Several GSS employees have equipped their home computers

GSS surveyors, Page 3

## Mystery photo



Our mystery photo for January has worked her entire federal career at HTC. Born and raised in the Glen Echo Heights area, this lady sees retirement plans in the very near future.



**PRAISES**—The highest award in the Air Force History Program was presented to DMA historian Shelley L. Davis in December ceremonies at Langley AFB, Va. General Robert D. Russ, commander of the Tactical Air Command, presented the 1987 USAF Award for Excellence to Davis for her work at Twelfth Air Force, where she was historian prior to joining DMA last June. In addition to the citation for excellence in managing a numbered air force history program, Davis was presented with the USAF recognition ribbon for her accomplishments, a unique civilian honor.

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# San Antonio Office—growing with DMA

by D. Morrow/S. Fechner

"Bienvenidos a San Antonio." To Texans, this beautiful and culturally rich city, with its famous and historically significant Alamo mission, is the cradle of the State's freedom from Mexico.

San Antonio's excellent weather and its location at the edge of the famous Texas hill country have made it home for several major military installations. Fort Sam Houston, the oldest of these military bases, is the residence of the third largest family of DMA employees, after Washington, D.C., and St. Louis, Mo. Together IAGS and the San Antonio Office comprise approximately 300 professional employees of DMA, with the San Antonio Office being the larger.

The modern history of mili-



Cartographer Manuel Herrera.

tary mapmaking in San Antonio dates back to 1918 and the U S Army Engineer Department. Between 1918 and 1942, mapmaking and distribution remained the preserve of the 4th Army Engineers.

During World War II, the Army Map Service (then part of the Corps of Engineers) opened a field office in the facilities of the Tobin Aerial Mapping Company. This San Antonio Branch of the Army

Map Service officially came into existence on June 1, 1942.

High priority assignments were in continuous operation until the surrender of Japan. The plant was a highly productive organization which had been given some of the most important mapping jobs for invasions and occupational uses.

As part of the post-war cutbacks, the office closed in 1945.

On December 6, 1951, the 4th Army Engineer Map Plant was transferred to the Army Map Service, and a permanent field office was opened in San Antonio. It was redesignated the San Antonio Army Map Service Field Office, located on Fort Sam Houston.

Since its establishment 36 years ago, the San Antonio Office has shared in the growth of DMA and its predecessor organizations. Its support to DMA's mission is accomplished with a professional staff of nearly 220 personnel and an annual budget of approximately \$8.5 million. This support is provided in areas of triangulation, photogrammetry, map compilation and color separation.

With the recent disestablishment of the Field Offices Department at HTC (spoken of by Colonel O'Neill in the November Surf "n' Turf), the San Antonio Office has been organizationally placed at the department level.

Al Larson, director of the San Antonio Office said, "As the past and present provide foundation and direction, the future provides goals and exciting challenges."

Larson explained that in the next few years a number of important changes are planned for the San Antonio Office which involve personnel, mission and equipment, and the facility itself. The building which houses the field office is a three-story, 78,400 square foot structure.

Louis Toupal, chief of the Administrative Office, added that projects are in progress to



SXO cartographer Rhonda Neal scribes a negative during the mapmaking process at the San Antonio Office.

rework portions of the first and second floors, with special emphasis on safety and health. New and more attractive systems furniture, a full replacement of the roof, and an upgrade to the electrical capacity of the building are

in June 1987, provides the capability both to process triangulation input for the digital stereo compilers and to provide bulk data transfers between SXO and the base plant in Brookmont, Md."

A new software package

tion segment (DI/S) equipment, and plans have been developed to accommodate several existing base plant systems which will migrate into the SXO inventory in the 1988-1992 time frame.

Future equipment and facility development are of great importance, but the people who work at SXO today and tomorrow are even more vital. Nearly 50 percent of the employees have college degrees; approximately 10 percent have master's degrees.

This year, four students are participating in long-term full-time training, and four more have recently been selected to begin training next Fall.

Larson said SXO will continue to support Project PREP, the pre-engineering program at the University of Texas at San Antonio, which cultivates interest in DMA in young people of high school age who have demonstrated special ability in science and mathematics. These people may one day also figure in SXO's future.

*... past and present provide foundation and direction ... future provides goals and ... challenges: Larson*

also underway.

Dan Morrow, chief of the Production Support Office said, "These proposed changes will be developed in consonance with planned equipment procurements and acquisitions in support of Mark 85 and SXO's potentially increased international interface mission. The CAPPS (Clustered Analytical Photogrammetric Processing System), a VAX 11/780, installed

provides pooled analytical stereoplotter system format for both profile and contour data collected on the DSC's. Plans also have been formulated to upgrade the Central Processing Unit and operating system on the DSC control computers to enable potential modernization of the DSC applications package to support present and Mark 85 requirements.

Site preparation has been completed for the data integra-

## Suggester GSS surveyors

(from Page 2)

Alfred W. League, a Digital Products Department cartographer, was honored at a ceremony for his cost saving suggestion, "Water Processing for TES/EMPS."



League

This suggestion will reduce UNIVAC processing time without a significant increase in Terrain Edit System/Elevation Matrix Processing System processing time. This will result in estimated first year tangible benefits of \$15,379.

A native of Baltimore, Md., League completed his bachelor of science degree in 1982 from Tow-

Suggester, Page 4

for telecommunications or have purchased home terminals for use in conjunction with the GSS VAX. These employees find it convenient to use their personal computers to communicate from home with field teams and to track projects.

Last year, several Hewlett Packard personal computers were added to the GSS equipment inventory. With these "mighty micros" a large segment of the GSS Geodetic Data Base, appropriately called "Blackhole," can be deployed to remote field locations. This allows full-feature data reduction of geodetic survey data in areas of the world without reliable telephone service.

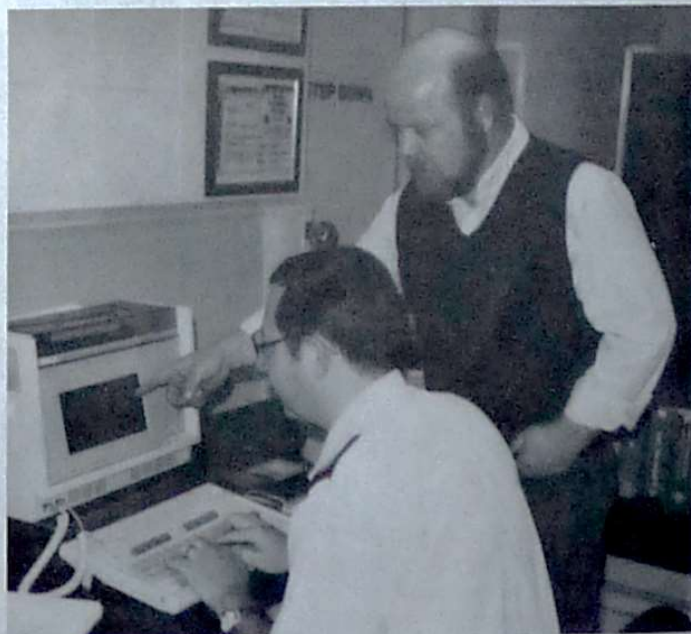
The IPC's have been successfully used in remote regions of Florida, Morocco and Nevada in this "stand alone" mode. GSS personnel are currently being trained to operate the IPC and its pocket-sized companion, the HP-71B. These two computers will see intensified field data applications in the 1990's at GSS.

The microcomputer, in desk top and portable versions, has become an extremely useful survey tool and management communications device to the men and women of GSS. These devices will continue to play a large role in GSS survey operations in the years ahead.

227-2245



Director's HOT LINE



SENIOR MASTER SERGEANT Bruce Porter (seated) and Robert Wideman review data on an integrated personal computer.

# SPORTS

## Women's soccer

The DMA Women's Soccer Team, Monty, finished the fall 1987 season in second place with a 5-2-3 record. Despite a difficult schedule, the team had a great time and successfully broke-in new coach, Walter Mueller. Mueller did his share of breaking in also, with help from able assistants, Jeanie Thackrey and Brian Cieprisz.

Mueller, accustomed to coaching a boys' select team, was not prepared for the differences between 17 year old boys and ?? year old career-oriented women. After some adjustments from both sides, everyone was ready for serious recreational soccer.

Kathy Dubishar, in her second Monty season, was awarded The Most Improved Player Award. By the end of the season, Dubishar earned a spot as a starting full-back. Having played soccer for twelve years, Beth Eldridge, a new player for Monty, was honored as The Most Valuable Player.

Team representative Cindy Burns has passed her duties on to another Monty veteran, Bessie Kotsiras. Burns stated that a spe-



MONTY soccer team members are front row (center): Jeanie Thackrey. Second row (left to right, kneeling): Sally Frodge, Vanessa Nii, Barb Locke, Melissa Boderocco, Barbara Morey, Phylliss Frothingham, Mary Ellen Lee, Claudia Ghassemi, Barb Lazirko,

Dona Lee and Kathy Dennison. Third row (standing, left to right): Walt Mueller, Robin Langley-Epps, Bessie Kotsiras, Kathy Dubishar, Anita Davis, Kathy Wheeler, Virginia Fournier, Beth Eldridge, Cindy Burns and Brian Cieprisz.

cial thanks was in order to Kathy Wheeler, Virginia Fournier, the Civilian Welfare Fund and everyone else who helped make the season a success.

For those of you who haven't had the opportunity to play on a DMA team, it's a great way to meet employees outside of your work area. In addition to soccer,

there are other teams—softball, basketball, volleyball and bowling. If you want to get involved, call your Civilian Welfare Fund representative.

Monty needs experienced players in February for the spring season. If you're interested, call Walter Mueller, x73859 or Bessie Kotsiras, x72594.

## Sixteen compete at Pearl Harbor Day run

by A. G. Homing

Unseasonably warm, sunny weather prevailed for the tenth annual Pearl Harbor Day run held on Monday, December 7. The C&O towpath was an excellent location for the three simultaneous races in which 16 participants chose between two, six or 10 mile distances.

The course provided a scenic view with the canal on one side and the Potomac River on the other. The relatively flat dirt path gave the runners sure footing that made for interesting competition and better-than-average times.

The clearly dominant individual performance of the day was by Bill Wooden in the 10-mile

race. Wooden led all of the runners at the six-mile mark with a blazing 34:30. He then went on to capture the title for the sixth time since 1980, finishing with a commanding time of 58:12.

The two-mile race was dominated by the Digital Products Department, with four of the five finishers. Bill Donaldson overwhelmed the two-milers for the top spot with a quick time of 14:27, but the real excitement was the contest for second place between Tom Spillman and John Foley. Spillman managed to edge Foley by one second at the finish line.

The majority of the runners competed in the six-mile race. Gregg Hinkle and Chris Heintz led the pack from start to finish—Hinkle winning with a strong time of 35:54.

In the six-mile race, close battles were also waged for third and fifth place. Kath Otto caught Mike Weingord at the 4½ mile mark. The two stayed even to the last 200 yards when Weingord's strong kick propelled him into third place.

The other battle involved two fellow office members, Alex Spalding and Greg Homan from Scientific Data. They kept a "neck and neck" pace for the first five miles until Spalding pulled away from Homan, taking fifth place by 19 seconds. Turning in personal bests—both runners benefited from the close competition.

Special thanks to Kath Otto and Bill Wooden for organizing the race and to volunteer timers, Lieutenant Eric Baylor, Lieuten-

ant Commander Susan Bulfinch and Lieutenant Commander Bill Pigg.

The next Surf 'n' Turf Roadrunners Club sponsored race will be

the Spring Day Race on Monday, March 21. A two-mile and a 10 km race will be held. For further information, contact Kath Otto, x72174.

### Pearl Harbor Day Race Results

Two-Mile	Code	Time
(1) Bill Donaldson	DP	14:27
(2) Tom Spillman	DP	15:40
(3) John Foley	DP	15:41
(4) Roy Soluri	PR	16:50
(5) Mark Burnell	DP	17:31

Six-Mile	Code	Time
(1) Gregg Hinkle	SD	35:54

(2) Chris Heintz	SD	36:43
(3) Mike Weingord	MC	42:05
(4) Kath Otto	GS	42:11
(5) Alex Spalding	SD	42:57
(6) Greg Homan	SD	43:16
(7) Peter O'Neill	D	49:02
(8) Chester Smith	PR	53:10
(9) Joyce Gietkowski	PR	55:12

Ten-Mile	Code	Time
(1) Bill Wooden	RE	58:12
(2) Mark Henry	CM	83:48

## Colonel O'Neill

(from Page 2)

files, five digital files, three intelligence and three miscellaneous files.

Following validation we will then begin a four-month period of exercise and rehearsal. By late September 1988 we will begin to operate the DI segment in parallel with our current nonintegrated and manual systems to work out procedures, processes, discrepancies and the like within the integrated system.

In this way we will be able to confidently turn over to full production valid data bases and files in September 1989.

DI is the largest Mark 85 segment to enter the Center. It will test our energies, our imaginations and our commitment. DI is the major examination. If we can successfully steer DI into production, we will assure ourselves that we have what it takes to succeed in bringing the Mark 90 all-digital end-to-end system into production.

## Wanted

Surf 'n' Turf editor is desperately seeking baby photos (in good condition) for future use in the Mystery photo column. For further information, contact Judy L. Sawhook on x72023 or just drop by Room 152 Erskine Hall.

### December's mystery photo



Theresa Rhodes

### Suggester (from Page 3)

son State University, Towson, Md. Beginning his career with DMA that same year, he served as a cartographer in the Photogrammetric Data Division of Digital Products.

Since January 1987, League has served as a techniques officer responsible for the TES/EMPS in support of DTED.

League holds a commission in the U.S. Naval Reserve. As an active reservist, he serves as assistant division officer with the Naval Intelligence Command at Suitland, Md.

In April 1987, League was selected as a participant in the DMA Executive Leadership Program.

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