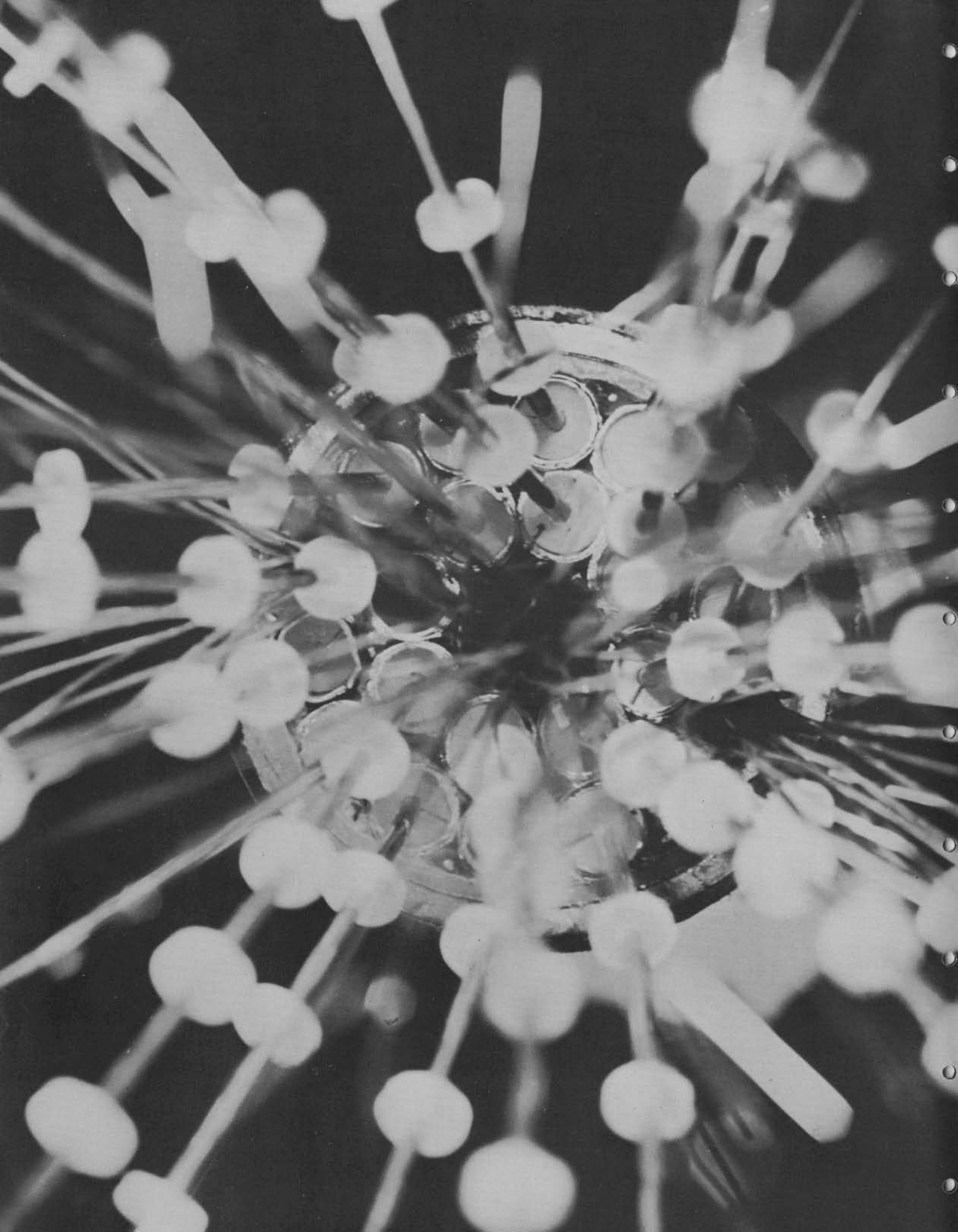


**AGS  
HELPS COMPANIES  
LIKE YOURS  
BUILD INFORMATION  
SYSTEMS**

# **INFORMATION SYSTEMS THAT WORK**

**THAT'S A STRONG CLAIM,  
SO DON'T JUST TAKE OUR WORD FOR IT,  
ASK OUR CLIENTS.**



# NEW YORK TELEPHONE

The underground communications network of New York Telephone involves several million pieces of equipment, including circuits, cables, repeaters, and carrier systems. At any given time, different operating departments of the telephone company require immediate access to up-to-the-minute data about these facilities. This is especially true in emergencies caused by fire or flooding. To make repairs, maintenance crews have to know the physical and electrical characteristics of each piece of equipment, including its location and use.

To provide this information, AGS assisted New York Telephone in the development of a system which holds several million records on an IMS data base, allowing inquiry, update, deletion and addition of data via IBM 3270 CRT terminals. Both message processing and batch IMS programs are involved: since the data stored is so crucial, the design incorporates extreme measures for data base security, with advanced and comprehensive methods of data base backup and recovery.





# AMERADA HESS

To accommodate its continuing growth, Amerada Hess installed larger computer hardware necessitating a conversion of its systems from DOS to OS/VS. AGS had primary responsibility for this conversion. Since over 400 programs were involved, AGS programmers wrote conversion software which took the output of IBM's Language Conversion Program and made all necessary changes to implement OS/VS ANS COBOL. Including the preparation of all JCL, systems generation and testing, the conversion was completed in record time, producing programs shown to be efficient under VS.



UNITED STATES LINES

UNITED STATES LINES

UNITED STATES LINES

UNITED STATES LINES

S/S

# UNITED STATES LINES

Containerization has revolutionized the shipping industry. It has also created a variety of control and reporting needs. Container availability has to be scheduled, cargoes assembled, space reserved on ships, and inventories monitored. Documentation must be produced and arrive in the right hands in time to process the container at its destination.

To fulfill these requirements, AGS developed a computerized container control and documentation system for U.S. Lines. A world-wide communications network gathers information on customer requirements, container departures and arrivals, and space reservation plans for each forthcoming voyage. A data base is maintained to allow on-line inquiry to any element of the system: therefore if a customer wishes to send 10 tons of spare parts from Peoria to Portofino, the system will locate space in a suitable container near Peoria, dispatch the container, book space in a ship from Cleveland to Naples, track the progress of the container, generate the documentation needed at each stage, and finally release the container when empty in Italy and schedule it for a return trip.





THE BOWERY

COBBLEVALE

Advertisement sign on the sidewalk.

# **BOWERY SAVINGS BANK**

More than a million New Yorkers have accounts with one of the 17 branches of the Bowery.

AGS helped the Bowery to develop a system which stores and maintains each depositor's account information records. The system permits authorized officers of the Bank to access this data from any branch via display terminals.

Updating of the records is performed on-line to minimize delays in keeping the information current. This system employs a UNIVAC computer with Bunker Ramo terminals.



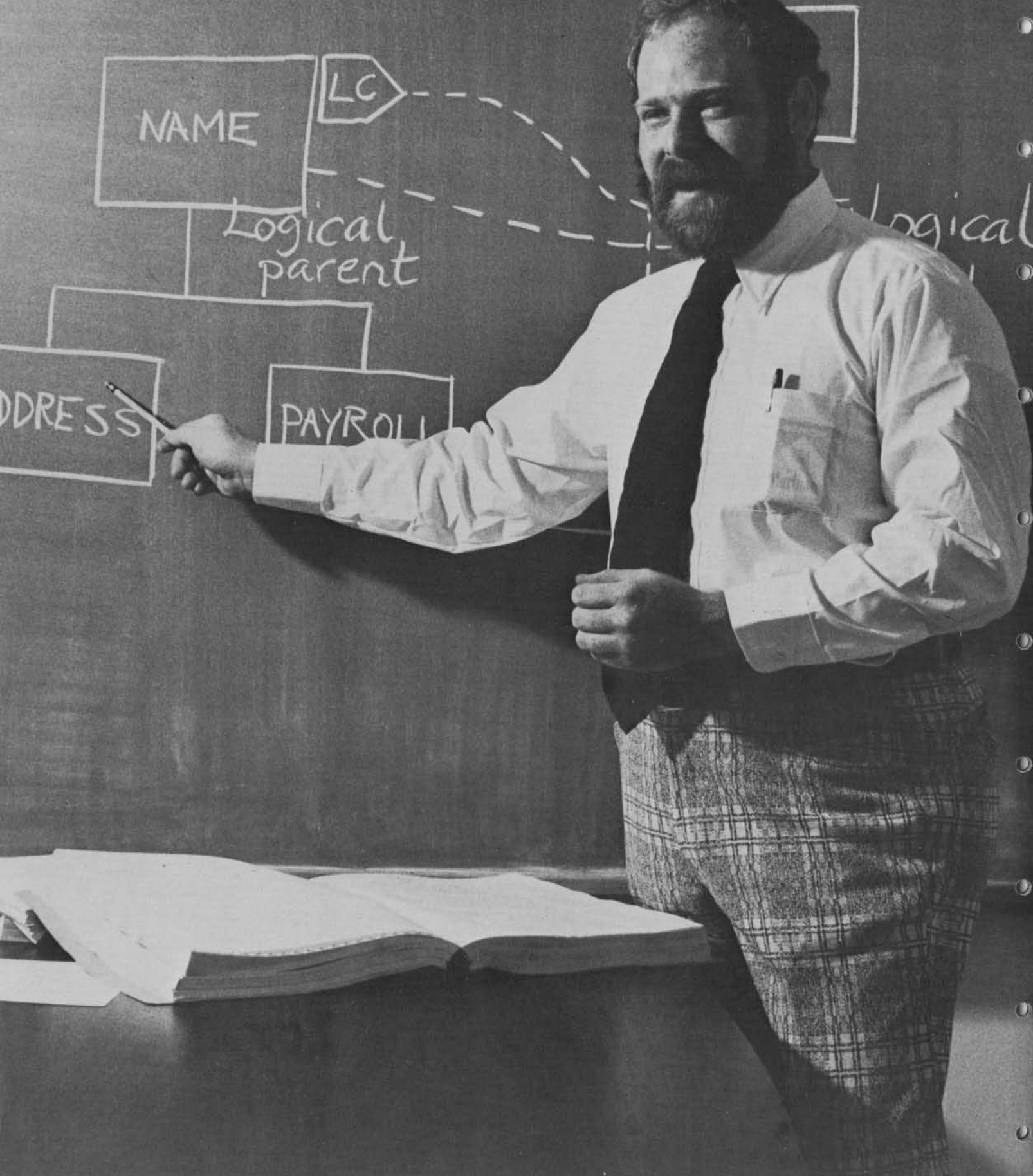
# CBS NEWS

Election night comes but once a year. No second chances . . . no postponements . . . no reruns. It's either all or nothing.

That's why CBS NEWS chose AGS to build a new and technically advanced Election News Data Base and "ON-AIR" Graphics Display System. If you had an opportunity to watch CBS' Election Night Coverage on November 5, 1974, you saw the graphics display portion of our system performing flawlessly. The various Senatorial, Gubernatorial, and Congressional data bases were maintained on a dual processor PDP-11/35 mini-computer system.

Designed, engineered, programmed, and installed by AGS' Communication Systems Group, this system coordinated the on-line receipt of election data from an IBM System 370/155 and transmitted it through specially built interfaces to CBS Vidifonts (Video Font Character Generators) and video graphics displays. To insure integrity, the system was totally redundant: two processors, a mass storage floppy disk, multiple terminals, two Vidifonts, etc. AGS also designed terminals to simplify the retrieval of election data, its preview, "ON-AIR" display, and transmission. The prime system proved so reliable, that the back-up system was never used.







# BELL LABORATORIES

"In the real logical child, the key can be any contiguous set of bytes. If part of the logical parent concatenated key is used, the logical parents field concatenated key must be physically stored on the direct access storage device. This is accomplished by making use of an option available to the individual when he or she executes the physical DBDGEN. The concatenated key of the logical parent will always reside in the logical child."

Just another day in the life of an AGS instructor teaching IMS/VS at Bell Laboratories. At this and other Bell System Companies, instructors from our Systems Training Group are teaching a wide range of subjects including: IMS Batch and Teleprocessing, IMS/VS Data Base Organization, IMS/VS Internals, CICS/VS, PL/I, OS, VS, etc.

Structured to develop and improve programmer/analyst skills, the training is hard hitting and thorough. Bell Laboratories is at the forefront of information systems development, and demands superior training for, and performance from, its people. AGS is helping to maintain that standard of excellence.



# OUR BUSINESS

AGS' business is helping companies build information systems. Developing systems on-time, within cost and according to specifications has been the backbone of our continuing success since 1967. Our services include systems design and implementation, contract programming, turnkey systems development, consulting, engineering and systems training. On projects both large and small, we have repeatedly demonstrated our ability to make a valuable contribution to our client's endeavors.

## **AGS IS ORGANIZED INTO FOUR OPERATING GROUPS**

The Systems Development Group provides traditional contract services in the development of medium and large-scale information systems. These services include Consulting, Feasibility, Analysis, Design, Programming, Testing, Documentation, Conversion, Installation, and Project Management; they are provided on either a time and expenses, or fixed price basis. The scope of our work has ranged from a two month COBOL programming effort, to a 15 man-year effort in the development of a large on-line IMS system.

The Communications Group specializes in the development of systems for communications, message switching, on-line data acquisition, process control, front-ending, and specialized stand-alone processing. With the majority of its work centering around minicomputer systems, the Communications Group builds systems on either a turnkey (from conception through engineering and installation) or contract programming basis.

The Systems Training Group conducts on-site training courses in programming languages, operating systems and advanced subjects including OS/VS, IMS (IMS/VS) systems design and programming, and CICS (CICS/VS).

The Revenue Systems Group designs and engineers turnkey on-line monitoring and reporting systems for revenue analysis/auditing. These systems are directed towards toll collection agencies including highways, bridges, tunnels, and parking facilities.



# AGS CLIENTS

ACADEMIC PRESS, INC.  
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AMERICAN BIBLE SOCIETY  
AMERICAN CAN COMPANY  
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AMERICAN EXPORT INDUSTRIES  
AMERICAN EXPRESS CO.  
AMERICAN RE-INSURANCE CO.  
AMERICAN TELEPHONE & TELEGRAPH COMPANY  
AMERICAN TOTALISATOR COMPANY  
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BOWERY SAVINGS BANK  
CHASE MANHATTAN BANK  
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CITY OF NEW YORK  
COLGATE PALMOLIVE COMPANY  
COLUMBIA PRESBYTERIAN HOSPITAL  
CONSOLIDATED EDISON CO., N.Y. INC.  
CONSOLIDATED FOOD CORPORATION  
COOPERS & LYBRAND  
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FORD FOUNDATION  
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GENERAL INSTRUMENT CORPORATION  
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W.T. GRANT, INC.  
GREAT ATLANTIC AND PACIFIC TEA COMPANY  
GUARDIAN LIFE INSURANCE CO. OF AMERICA  
HARCOURT BRACE JOVANOVIH, INC.  
HONEYWELL, INC.  
IBM CORPORATION

INSURANCE COMPANY OF NORTH AMERICA  
INSURANCE SERVICE ORGANIZATION  
INTERNATIONAL PAPER COMPANY  
INTERNATIONAL TELEPHONE & TELEGRAPH COMPANY  
JOSEPHTHAL & COMPANY  
KENNECOTT COPPER CORPORATION  
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LOEWS CORPORATION  
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METROPOLITAN SAVINGS BANK  
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MOUNTAIN STATES TELEPHONE COMPANY  
NABISCO, INC.  
NATIONAL BANK OF NORTH AMERICA  
NATIONAL BUREAU OF STANDARDS  
NATIONAL DISTILLERS & CHEMICAL CORP.  
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NEW YORK SHIPPING ASSOCIATION  
PACIFIC NORTHWEST BELL  
PALISADES SAVINGS & LOAN ASSOCIATION  
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SUN OIL COMPANY  
SUPERMARKETS GENERAL CORP.  
TRIBOROUGH BRIDGE AND TUNNEL AUTHORITY  
UNITED STATES STEEL CORP.  
UNITED STATES TRUST COMPANY  
VIACOM INTERNATIONAL  
WAKEFERN FOOD CORPORATION  
WARNER-LAMBERT PHARMACEUTICAL CO.  
WESTERN ELECTRIC COMPANY

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