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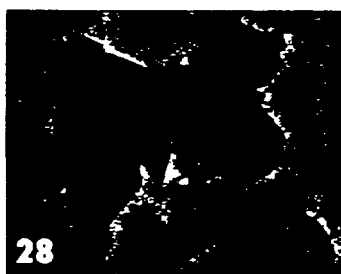
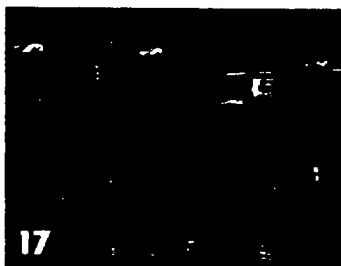
CONSTRUCTOR

AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY

JANUARY 1986 Vol. LXVIII, No. 1

FEATURES

- 17 **IN THE WAKE OF OUR COMPETITION**
Lack of deepwater ports on the Atlantic and Gulf coasts hurts U.S. competitiveness in international trade. A national port dredging program would enable the U.S. to regain a leadership position in the maritime world.
- 22 **TURNING TRASH INTO ENERGY**
Disposal of solid wastes is an expensive and growing problem in America's cities. Building resource recovery facilities is a win-win solution to the problem of urban garbage.
- 28 **INTERNATIONAL CONSTRUCTION MARKET HINDERED BY NATIONS IN DEBT**
Heavy foreign debt and political unrest in developing nations continue to slow recovery of the international construction market. However, the U.S. Embassy construction program is gathering momentum.
- 34 **INFRASTRUCTURE HITS CLOSE TO HOME**
"The Infrastructure: An American Crisis" is a new two-week mini-course for high school students. The AGC-sponsored course not only points out the direct costs associated with public works, but stresses the indirect costs to society of not repairing or replacing deteriorated infrastructure.
- 38 **INDUSTRY GROUPS 1986 FORECAST**
The heads of ten of the construction industry's leading trade and professional associations prognosticate about the next twelve months.



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- 57 **REGIONAL ACTION**
- 59 **NEWSMAKERS**
- 63 **CLASSIFIEDS**
- 64 **EDITORIALS**

Cover photo courtesy of the American Institute of Merchant Shipping

CONSTRUCTOR/January 1986

PLAINTIFF'S
EXHIBIT
B&R-151

CONSTRUCTOR

AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY FEBRUARY 1986 Vol. LXVIII, No. 2

FEATURES

- 12 DRUG-ALCOHOL USE IN AMERICA'S WORKPLACES** Drugs and alcohol are on construction sites just as they are in factories and offices. The toll in human and economic terms is immense. The solution begins with awareness — of the problem itself and of your rights in combating it.
- 20 PUTTING EQUIPMENT ON THE BLOCK** Contractors are rediscovering one of free enterprise's oldest institutions — the auction — as a quick way to turn used equipment into cash.
- 25 EQUIPMENT ACQUISITION** If all you consider when choosing where to buy equipment is price, you could be making an expensive mistake. Service, support and training are the other parts of the equation.
- 34 AGING EQUIPMENT: REBUILD OR REPLACE?** Is your equipment at the end of its road? Deciding whether to rebuild or replace is a purely economic decision. Two experienced owners tell how they make the choice.



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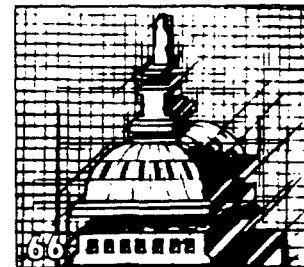
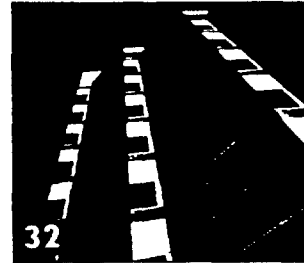
Cover collage by Ron Flemmings. Cover photo by Roger Foley.

CONSTRUCTOR

AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY MARCH 1986 Vol. LXVIII, No. 3

FEATURES

- 24 INFRASTRUCTURE FINANCING AT THE CROSSROADS** As the nation reaches a critical juncture in funding infrastructure needs, a private sector panel is helping Congress find new ways for business and government to join forces to answer the growing short-fall.
- 32 WHERE THE BUILDING MEETS THE EYE** The choice of a building's exterior wall system is a marriage of the aesthetic and the functional. Explore the world of non-load-bearing wall construction.
- 38 INTEGRATED COMPUTER ESTIMATING** Computerized estimating may be the hottest buzzword in the industry, but too often the term generates more heat than light. Here's how one construction company is making it work.
- 44 AGC CONVENTION-AT-A-GLANCE** A schedule of events for the AGC Convention in Honolulu, Hawaii.
- 48 1986 AGC CONSTRUCTOR EXPOSITION** A listing of construction exhibitors and their products on view at the exposition in Honolulu.
- 58 IMAGES OF CONSTRUCTION** Prize-winning shots of the industry that builds the nation, from AGC's Photo Contest.
- 66 POLITICALLY ACTIVE CONTRACTORS** The AGC Political Action Committee makes sure construction's voice is heard when Congress weighs the issues.



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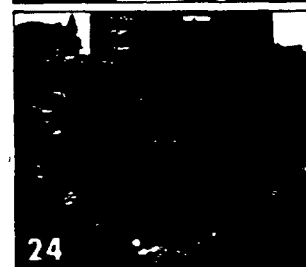
Cover illustration by
Ron Flemming.

CONSTRUCTOR

AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY APRIL 1986 Vol. LXVIII, No. 4

FEATURES

- 18 QUALITY INSPIRES CONFIDENCE: AN INTERVIEW WITH AGC PRESIDENT HALL** AGC's new president puts his faith in quality, not compromises. He is an activist who believes that just as a general contractor is the leader on a construction site, it is only fitting that AGC lead the construction industry.
- 24 PRE-CONSTRUCTION TEAMWORK** When all three members of the owner-building contractor-designer team pull together, the result is greater success for each.
- 28 INSURANCE SHAKEUP** Be prepared. You may be hearing from your insurance agent soon, because the insurance industry is about to issue the first major changes in liability coverage in 20 years.
- 34 STP-THE SUPERVISOR'S EDGE** AGC's Supervisory Training Program lets you get the best from your supervisors.
- 38 THE MULTIEMPLOYER PENSION PLAN AMENDMENTS ACT OF 1980** First of a two-part article on the uncertain future of multiemployer private pension plans.
- 42 IN PERSON: LINDA CHAVEZ** As the staff director for the U.S. Commission on Civil Rights, Linda Chavez proved herself a straight shooter. Now she's aiming for the Senate. An interview.
- 45 1986 ALLHANDS ESSAY WINNER** Results of this year's James Allhands Essay Competition.



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Cover photo by Marty LaVoi.

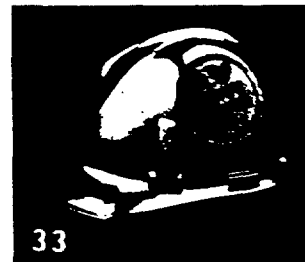
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AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY

MAY 1986 Vol. LXVIII, No. 5

FEATURES

- 18 HOMEGROWN PUBLIC WORKS FINANCING** The drying up of federal and state grants for public works is hitting local governments across the nation. Here's how Howard County, Maryland, funded a sewage interceptor and a treatment plant almost completely on its own.
- 23 HAZARDOUS WASTE CLEANUP** The hazardous waste cleanup market, plagued by liability problems and insufficient funding, is expected to pick up substantially in the years ahead.
- 28 ALLIANCES OF EARTH AND FABRIC** Geofabrics are finding increasing acceptance in construction applications. A look at what manufacturers are offering.
- 33 WORKING SAFE: AGC SAFETY SERVICES** AGC and the American Society of Safety Engineers are co-sponsors of National Safety in the Workplace Week, June 15-21. But AGC has long recognized the importance of a safe jobsite, a fact reflected in the array of safety services it offers contractors.
- 50 THE MULTIEMPLOYER PENSION PLAN AMENDMENTS ACT OF 1980** Second of a two-part series on how the MPPAA of 1980 is affecting multiemployer pension plans.
- 53 1986 AGC LEADERSHIP CONFERENCE** Over 100 AGC leaders came to Washington in April to meet with decision makers in the House of Representatives, the Senate and the White House, including President Reagan.



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Cover photo by
Roger Foley

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AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY

JUNE 1986 Vol. LXVIII, No. 6

FEATURES

18 CONGRESS SHOULDERS A WATER BILL

Later this year, Congress is expected to pass the first major water resources funding bill in four years, opening the door to new opportunities for contractors.

24 AMERICA'S RIVERS OF COMMERCE

From the first canals in the 1700s to the Tennessee-Tombigbee Waterway today, the history of the inland waterways system has paralleled the nation's development.

29 STRATEGIC HOMEPORTING FOR THE NAVY OF THE 1990s

The U.S. Navy is expected to spend \$800 million over the next few years to disperse the fleet into a greater number of ports.

37 STATE OF THE ART MANUFACTURING

The J I Case Company is using computers to design and build better construction machinery.

41 ARE PENSION FUNDS BEING INVESTED WISELY?

Pension fund investing is a big bucks game. But the unions may be endangering the retirement security of millions of Americans by pressuring fund trustees and advisors to invest in questionable ventures. First of a two-part series.



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13 NEWSLINE The
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AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY

JULY 1986 Vol. LXVIII, No. 7

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30 ARE PENSION FUNDS BEING INVESTED WISELY? PART II Concluding segment of an examination of "social investing."

34 A TRADITION OF LEADERSHIP Like construction itself, AGC membership is a tradition passed from one generation to another to another...

40 THE WORKINGS OF CAPITAL MARKETS How deregulation and internationalization of financial markets are affecting expenditures for industrial plants and infrastructure.

46 PROGRAMMED GROWTH The right computer system helped Keith Construction Company (AGC) of New Hampshire to maximize growth while staying compact.

54 GETTING PAID FOR WHAT YOU ALREADY KNOW Value engineering change proposals are an often-overlooked profit maker. And governmental agencies, squeezed for funds, are emphasizing VECP benefits.

60 THE FUTURE OF COMPUTERIZED ESTIMATING Better software and falling prices are revolutionizing computer estimating.

66 INFRASTRUCTURE: FINDING THE FUNDING The Department of Transportation is studying imaginative ways for business and government to finance needed projects.

70 EDUCATING FOR LIBERTY The Intercollegiate Studies Institute believes that students who best understand the free enterprise system will become its staunchest defenders.

AGC 1986 MEMBERSHIP DIRECTORY AGC's COMMITTEE STRUCTURE

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CONSTRUCTOR

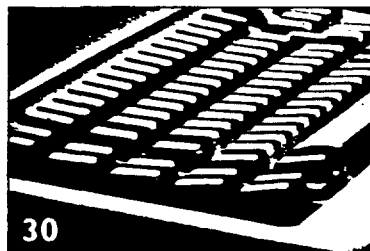
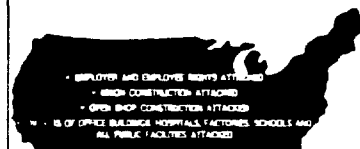
AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY

AUGUST 1986 Vol. LXVIII, No. 8

FEATURES

- 18 S. 2181/H.R. 281: POISON PILL UPDATE** AGC has committed its full resources to defeating the most threatening labor law legislation in construction's history. An update on the devastation the legislation would cause and what AGC is doing to defeat it.
- 21 OPERATORLESS EQUIPMENT** At Europe's huge Bauma construction exposition, a 200-ton loader with a computer at the wheel stole the show.
- 24 WHO'LL GIVE ME TWO? (MILLION DOLLARS)** The auction business is getting hot as contractors discover auctions as a fast, convenient way to liquidate or acquire equipment.
- 30 RANGE ESTIMATING ON YOUR PC** Feel like reviewing your target estimate on a project up to 1,000 times? Your personal computer can do it, taking a lot of the guesswork out of the estimating process.
- 36 PROJECT CONTROL WITH PERSONAL COMPUTERS** How on-site PCs allow project managers better control over the three most important factors on any job: time, quality and money.

S. 2181/H.R. 281 ... AN ATTACK ON AMERICA'S BASIC FREEDOMS



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- 56 EDITORIALS** H.R. 281/S. 2181 — the shutdown to straighten up a job plan

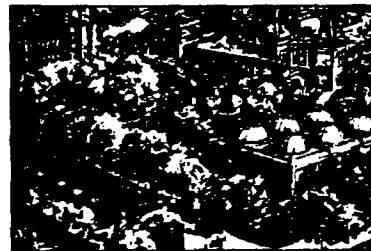
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AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY SEPTEMBER 1986 Vol. LXVIII, No. 9

FEATURES

- 16 **CHAPTER PROFILE: AGC OF KENTUCKY, INC.** Kicking off a new monthly feature about AGC chapters, AGC of Kentucky, Inc. shows how responding to change has turned this dark horse into a winner.
- 20 **ELEMENTS OF EARTH, WIND, FIRE AND WATER** AIA President John A. Busby, Jr. says our future depends on how we come to terms with some very basic elements.
- 23 **LIVING WITH LIABILITY** Affordable, adequate liability insurance remains difficult to secure, but things are beginning to look up. A status report.
- 27 **"ONE OF MY SUBS JUST WENT BANKRUPT!"** Why staying out of trouble is cheaper than getting out, and what you should do to protect yourself.
- 30 **CALIFORNIA CONSTRUCTION FUTURE** A new Wells-Fargo Bank report on California's future emphasizes the importance of infrastructure to foster planned, sustained growth.
- 34 **FEDERAL BUILDING PROGRAMS** Chief administrators of construction for three federal agencies forecast the year ahead.
- 40 **"BUILDING UP" FOR A CENTURY** This year marks the 100th anniversary of an American invention — the skyscraper.
- 44 **LIGHTER, STRONGER, SMARTER** Computer technology and advanced research are creating better building materials and tools.



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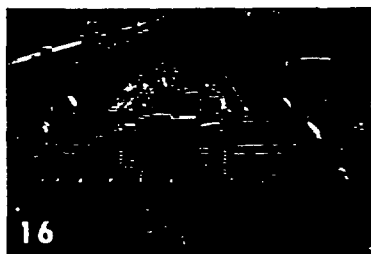
Cover: paper sculptures by Sally Vitsky
Photo by Lee Salsberry

CONSTRUCTOR

AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY OCTOBER 1986 Vol. LXVIII, No. 10

FEATURES

- 16 PROTECTING THE HIGHWAY TRUST FUND** The Trust Fund's monies are under assault, says FHWA Administrator Ray Barnhart, and action is needed now to safeguard our nation's highway system.
- 20 ON THE WINGS OF PROGRESS** FAA Administrator Donald Engen says airports are a vital link in the nation's infrastructure. But while the number of passengers is growing quickly, the number of airports is actually declining.
- 24 AGC OF VIRGINIA** Chapter profile
- 26 OREGON-COLUMBIA CHAPTER, AGC** Chapter profile
- 30 HIGHLIGHTS FROM THE AGC MIDYEAR**
- 34 GEOTEXTILES OFFER SOIL SECURITY** Geotextiles are providing new solutions to problems of soil stability. Three case studies.
- 38 CONTRACTING OUT** Why the private sector performs public works better, cheaper and with less risk.
- 41 THE JARRING RIDE FROM FARM TO MARKET** Changes in the U.S.'s agricultural economy are affecting the ability of rural governments to deal with their deteriorating roads. A look at the problem and some possible solutions.
- 45 THE COST OF PREFERENCE PROGRAMS** A new study documents the ills of anti-competition preference programs.



DEPARTMENTS

- 5 PERSPECTIVE** Baliles' clear intent
- 7 PRESIDENT'S MESSAGE** Infrastructure quality inspires confidence... in Virginia
- 8 MANAGEMENT RESOURCES** Davis-Bacon covers work 3,000 miles from construction site
- 12 NEWSLINE** H.R. 281 proponents attach bill to budget bill
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63 CLASSIFIED

- 64 EDITORIALS** Governor Baliles... the man who said he would and did! Who paved the way?

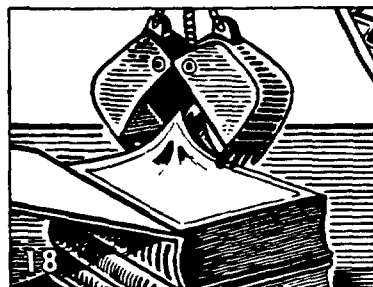
Cover: The man who said he would and did. In office only 10 months, Democrat Gerald L. Baliles starts delivery on his promise to shape up Virginia's transportation infrastructure. See pages 5, 7 and 64.

CONSTRUCTOR

AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY NOVEMBER 1986 Vol. LXVIII, No. 11

FEATURES

- 14 **BREAKING FAITH** U.S. Representative Bob McEwen believes Congress should spend infrastructure user fees on infrastructure instead of hoarding them to create the illusion of a more balanced budget.
- SPECIAL SECTION: AGC CONSTRUCTION EDUCATION** AGC serves the needs of contractors, their employees, and their future employees at all levels. These six articles provide an overview of AGC Construction Education services, programs, and publications.
- 18 **CONSTRUCTION CAREERS**
- 19 **TEACHING INFRASTRUCTURE IN THE SCHOOLS**
- 20 **HARDHAT DIPLOMAS ON THE RISE**
- 24 **STP IS THE FIELD SUPERVISOR'S EDGE**
- 28 **AGC MANAGEMENT CONFERENCES**
- 31 **AGC CHAPTER EDUCATION PROGRAMS BREED SUCCESS**
- 33 **CONSTRUCTOR INTERVIEW: ROBERT T. THOMPSON** Instrumental in the fight to defeat H.R. 281/S. 2181, attorney Robert Thompson shares his thoughts on a range of issues confronting both construction and the business community as a whole.
- 38 **H.R. 281/S. 2181 REJECTED** The anatomy of a victory by the construction industry over this devastating legislation shows the power of grass roots action.
- 44 **THE ARKANSAS CHAPTER AGC** Chapter profile
- 48 **THE AGC OF WASHINGTON** Chapter profile
- 50 **START NEGOTIATING FOR MORE PROFITABLE WORK** Why contractors are turning to the negotiated market.
- 55 **TRAFFIC BARRELS ON A ROLL** How AGC contractors in Kansas City used an "adopt a barrel" public relations campaign to turn lemons into lemonade.



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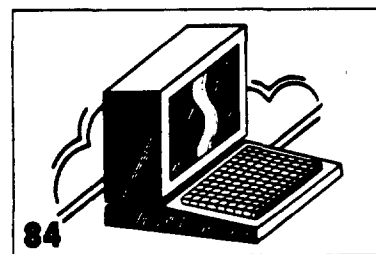
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AGC'S MANAGEMENT MAGAZINE FOR THE CONSTRUCTION INDUSTRY DECEMBER 1986 Vol. LXVIII, No. 12

FEATURES

- 16 AGC'S 1987 CONVENTION** Why you shouldn't come... and why you should.
- 24 100th CONGRESS MUST ACCELERATE HIGHWAY BILL** Over \$10 billion of taxpayers' money is waiting in the Highway Trust Fund for the 100th Congress to put it to its intended purpose—construction and rehabilitation of the nation's highways and bridges.
- 27 CONTRACTORS AT THE KEYBOARD** Two AGC contractors show how computers have changed the way they do business.
- 32 FORCES IN CONFLICT: FINDINGS FROM AGC'S ANNUAL MARKET SURVEY**
- 44 AGC OF MAINE, INC.** Chapter profile
- 48 EQUIPMENT SHOWS FOR '87** CONEXPO and the AGC Convention/CONSTRUCTOR Exposition showcase the latest in construction equipment.
- 51 GEORGIA BRANCH, AGC** Chapter profile
- 53 CONSTRUCTION INDUSTRY SOFTWARE INVENTORY** CONSTRUCTOR's fourth annual selection of nearly 200 software suppliers for the construction industry.
- 62 MAINFRAMES GO MOBILE** With distributed processing, contractors can access and manipulate data on site in ways never before possible.
- 84 THE PC REVOLUTION** AGC Computer Information Systems Committee Chairman Ed Faulkner on the future of personal computers in construction.
- 86 INVASION OF THE MINI-EXCAVATORS** Japan exported 200 mini-excavators to the U.S. in 1983. By 1990, the number may hit 3,000 annually.



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