

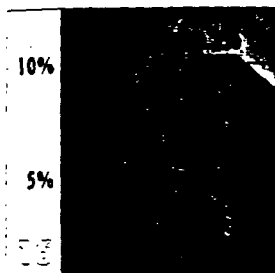
CONSTRUCTOR

CONSTRUCTION'S MANAGEMENT MAGAZINE

1996 AGC MEMBERSHIP DIRECTORY

Vol. LXXVIII, No. 1

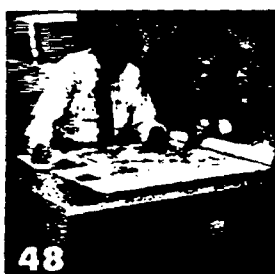
FEATURES



16 1996 AGC MARKET SURVEY By an overwhelming margin, AGC members are optimistic about the new year.

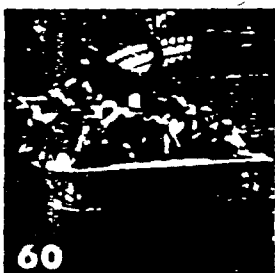
29 AGC IS SERVICE TO THE CONSTRUCTION WORLD AND IS THE OWNER'S EDGE A 16-page guide to the services that give AGC contractors the competitive advantage.

44 AGC CHAPTER DIRECTORY For those interested in membership or finding the right contractor.



48 AN EDGE ON THE COMPETITION AGC's 101 plan rooms offer a lot more than you thought—whether you're a contractor, owner, architect, engineer, subcontractor or supplier.

52 1996 PLAN ROOM DIRECTORY Another service of your local AGC chapter.

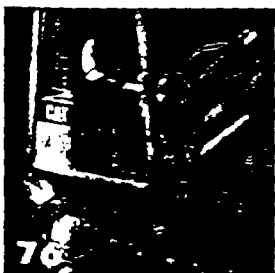


56 LOOKING UP: COMMERCIAL BUILDINGS '96 Building owners and developers predict a healthy market in 1996 for upgrades, modernization and new construction.

60 SAN ANTONIO EXCITEMENT "Construction...Delivery System for Quality of Life" is the theme of AGC's 1996 Convention.

68 A CELEBRATION AND A NEW COMMITMENT—THE NATIONAL QUALITY INITIATIVE CONFERENCE Forty-one state award winners.

76 CRAWLING ALONG Need extra traction for a tough job? Have to go places that no wheeled machine has gone before? Check out our listing of crawler dozers and loaders.



86 CONSTRUCTION INDUSTRY AWARDS In 1995, many individuals, groups and businesses in the construction industry were honored for exemplary service, performance or innovation. *CONSTRUCTOR* is pleased to present these award winners.

A-1 AGC MEMBERSHIP DIRECTORY
 in Section A General Contractors—alphabetical in Section C National Associates—alphabetical
 in Section B General Contractors—geographical in Section D National Associates—geographical
 How to use this directory—see back of AGC Contractor Profiles tab page
 Index to chapters—at the beginning of each directory section

DEPARTMENTS

5 AGC SEARCH COMMITTEE AT WORK
7 PRESIDENT'S MESSAGE Construction workforce—application of reason
8 NEWSLINE National Labor Relations Board agenda set

12 AGC CONSTRUCTION NEWS
82 NEW TECHNOLOGY Design software from Cadkey Inc.
84 NEW TECHNOLOGY Building with Micro Planner

93 NEW TECHNOLOGY Ingersoll-Rand introduces innovative drilling system
94 NEW TECHNOLOGY

106 INNOVATIONS IN PARTNERING
107 REGIONAL ACTION
108 NEWSMAKERS
112 EDITORIAL The state of construction

PLAINTIFF'S
EXHIBIT
B&R-141

CONSTRUCTOR/January 1996

1

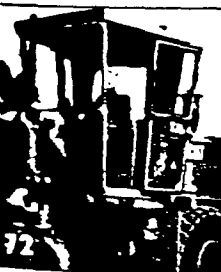
CONSTRUCTOR

CONSTRUCTION'S MANAGEMENT MAGAZINE

FEBRUARY 1996

Vol. LXXVIII, No. 2

FEATURES



12 FEDERAL CONSTRUCTION FUNDING: CAUGHT IN THE CROSS-FIRE? As Congress and the White House battle over a balanced budget, construction markets may sustain casualties.

22 FEDERAL HIGHWAY FUNDING Summary of FY 1996 apportionments pursuant to the National Highway System Designation Act of 1995.

24 FEDERAL GOVERNMENT APPROPRIATIONS, FISCAL YEAR 1996 Construction budgets, by agency.

28 ELIMINATE NEEDLESS REPETITION If your organization has too many programs, Project Administrator from Computer Guidance Corp. has the solution.

30 A STRAIGHT AND LEVEL ROAD Eighty-five percent of contractors expect 1996 construction activity to increase or remain the same, according to the CIT Group/Industrial Financing's 1996 Construction Industry Forecast.

32 CONSTRUCTOR EXPO '96—A HANDY GUIDE The alphabetical listing of our exhibitors and their products and services.

46 OUTSTANDING STUDENT CHAPTERS AGC's Construction Education Committee honors Student Chapters for community service, commitment, and campus presence.

50 THE R-SCORE FORMULA There is a difference between *profit* and *available profit*. Knowing the difference between the two could keep your company from going under.

54 PARTNERING—CHANGING ATTITUDES IN CONSTRUCTION

59 INVESTING IN AMERICA AGC's PAC—Politically Active Contractors—ensure construction's voice is heard on Capitol Hill.

61 AGC PAC 535 CLUB MEMBERS

72 SMOOTHING OUT THE JOB New motor graders emphasize operator comfort, refined control of blade, and better-than-ever maneuverability.

DEPARTMENTS

PERSPECTIVE
With Sincerity and Respect

PRESIDENT'S MESSAGE
Return to Reason . . .
in our nation's
public interest

NEWSLINE
Construction industry and
a football matter

10 AGC CONSTRUCTION NEWS

77 NEW TECHNOLOGY
Credomet's electronic
bidding system

78 NEW TECHNOLOGY
Quick looks at
exciting new tools

89 CONSTRUCTION MARKETING
Value, not price

91 NEWSMAKERS

92 CLASSIFIEDS

96 EDITORIAL
The Partnering
Commitment

ation
(PO 94
th B-3

CONSTRUCTOR

CONSTRUCTION'S MANAGEMENT MAGAZINE

MARCH 1996 Vol LXXVIII, No. 3

FEATURES



3 AGC IN THE LONE STAR STATE Highlights of the 77th Annual AGC Convention, February 29 - March 5, 1996, San Antonio, Texas

22 MOVING FORWARD TOGETHER Lee Wray Russell, AGC's New President, on why construction is the delivery system for quality of life. A profile.



38 UNDERGROUND CONDUIT CAN DO IT Mississippi contractor lays down copper cable with horizontal boring.

40 LIGHTING THE TORCH Directional boring brings gas line to the Special Olympics.

42 PIERCING TOOL IS NO GAMBLE Contractor goes trenchless to repair casino boat breakwall.



44 INNOVATIONS IN EDUCATION The Hawaii Chapter moves ahead with a construction management program and OSHA inspection classes.

46 PUMP UP THE VOLUME! Pumps of every description perform multiple tasks on every jobsite. A look at the latest improvements.

52 ON THE RIGHT "TRAC" Innovative program introduces teens to civil engineering and transportation careers.



56 POLLUTION LIABILITY INSURANCE What it covers, who sells it, and why you may need it even if you don't plan on working with hazardous waste.

64 AGC CHAPTER DIRECTORY AGC maintains offices in all 50 states and Puerto Rico, staffed with people ready to help you.

DEPARTMENTS

NEW TECHNOLOGY

Quick looks at exciting new tools

NEW TECHNOLOGY

Dynapac introduces new pneumatic rollers

74 INNOVATIONS IN PARTNERING Disney Development Co. and Martin K. Eby Co.

75 NEW TECHNOLOGY Wacker's new R&D facility

76 REGIONAL ACTION

76 CLASSIFIEDS

80 EDITORIAL Environmental reform: the message is not being delivered

ADVISORY BOARD

JOHN B. BELL President, Bell Construction Co. Dallas, Texas	PETER S. WICK, Jr. Vice President, Wick Construction Co. Seattle, Washington	LEE KRAMER Vice President, Kram Construction Group, Inc. Columbia, Tennessee	STEVE L. HARRIS Vice President, Harris Construction, Inc. Wilmington, Virginia	THOMAS J. MCDONOUGH President, McDonough Construction Co., Inc. St. Paul, Minnesota	JAMES W. LEE Vice President, Lee Construction Co. Chattanooga, Tennessee	JOHN CARLSON Vice President, Carlson Construction Co. Tulsa, Oklahoma	ROD W. PARR Vice President, Parr Construction Co. Los Angeles, California
JOHN J. KELLEY, Jr. Vice President, Kelley Construction Co. Birmingham, Alabama	JOHN J. KELLEY, Jr. Vice President, Kelley Construction Co. Birmingham, Alabama	BOY L. BRADLEY, Jr. Vice President, Bradley Construction Co. Tulsa, Oklahoma	WILLIAM H. LYLES Vice President, Lyles Construction Co. Tulsa, Oklahoma	BILL E. ARMSTRONG, Jr. Vice President, Armstrong Construction Co., Inc. Baton Rouge, Louisiana	JOHN CALLAN Vice President, Callan Construction Co. Dallas, Texas	LOIS ANN BLASOW Vice President, Blasow Construction Co. Chattanooga, Tennessee	CONSTRUCTION Vice President, Construction Co. Baton Rouge, Louisiana
ALAN L. LAYTON Vice President, Layton Construction Co. Dallas, Texas	ALAN L. LAYTON Vice President, Layton Construction Co. Dallas, Texas	EACE BURETT, Jr. Vice President, Burrett Construction Co. Dallas, Texas	BRIAN A. BRYENBACH Vice President, Bryenbach Construction Co. Dallas, Texas	PAUL B. WOOD Vice President, Wood Construction Co. Baton Rouge, Louisiana	RICHARD ARMSTRONG Vice President, Armstrong Construction Co. Dallas, Texas	RON LIND Vice President, Lind Construction Co. Baton Rouge, Louisiana	

20' boom
ion
g life...
ven Manitow
2 service...
work's world
work

ING CO.
any, Inc.
1 0070
414 683 627

CONSTRUCTOR

CONSTRUCTION MANAGEMENT MAGAZINE

APRIL 1996

Vol. LXXVIII, No. 4

FEATURES



14 JOURNEY TO AMERICA Hubert Beatty.



19 THE BEATTY YEARS A photographic retrospective.



25 ...AND THEY ALSO DIG DIRT Hydraulic excavators have become the contractor's all-around heavy construction tool. A guide to specifications.



32 RIGHT ON SCHEDULE *CONSTRUCTOR* looks at the latest in construction scheduling software.

36 HYDRAULIC HAMMERS & BREAKERS A guide to specifications.

38 MOVING FORWARD—TOGETHER Inaugural remarks of AGC of America President Lee Wray Russell.

40 AGC'S 1996 EXECUTIVE COMMITTEE AGC activists who give freely of their time and expertise.

45 MEET THE LEADERS Leaders of trade associations and unions with whom AGC works to advance the cause of construction.

49 SAFETY ALERT The National Transportation Safety Board issues safety recommendations in the aftermath of the 1994 gas explosion in Allentown, Pa.

50 CELEBRATING QUALITY The 1996 Build America Awards honor the best construction projects of 1995.

DEPARTMENTS

PRESIDENT'S MESSAGE
Two decades of quality
and leadership

NEWSLINE
AGC testifies on transportation spending

10 AGC CONSTRUCTION NEWS

60 NEW TECHNOLOGY
Caterpillar to develop global positioning system with Leica, Spectra-Physics

61 NEW TECHNOLOGY
McCosker software provides data link

62 NEW TECHNOLOGY Quick looks at exciting new tools

69 CLASSIFIEDS

72 EDITORIAL Moving forward together—the AGC of California, Inc.

ADVISORY BOARD

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

JOHN W. PAGE
President, AGC of California, Inc.
San Francisco, Calif.

EDUCATION

CONSTRUCTOR

CONSTRUCTION MANAGEMENT MAGAZINE

MAY 1996

Vol. LXXVIII, No. 5

FEATURES



14 MOVING FORWARD—TOGETHER AGC's Presidents: 100 chapters across America.

27 BUILDING THE FUTURE AGC presidents, vice presidents meet in Washington for leadership conference.

28 VA CONSTRUCTION PROJECTS The Department of Veterans Affairs lists current projects open for bidding.

29 CONSTRUCTOR'S 1996 BACKHOE LOADERS GUIDE Find the features, the power, and the size you want.

36 JOBSITE HARMONY Presenting the winners of the 1996 Marvin M. Black Excellence in Partnering Awards.

43 WIN THAT BID! Estimating software can give you a leg up on the competition. A look at the latest innovations from leading vendors. *Part One.*

50 AGC VOCATIONAL EDUCATION ACCREDITATION PROGRAM AGC chapters have accredited education programs as meeting training standards established by AGC for construction craft programs.

Bidhee Specs

1996 L-100 200
 Motor Grade Capacity: 1.2 cu. ft.
 Motor Hy. Grade: 17' 4"
 Motor Load Height: 5' 4"
 Motor Load at Ground Level: 10' 11"



DEPARTMENTS

PRESIDENT'S MESSAGE
 Unity, Communication,
 and Change...Moving
 Forward—Together!

NEWSLINE
 Thorne Aucther named
 executive vice president
 of AGC of America

12 AGC CONSTRUCTION NEWS

49 NEW TECHNOLOGY
 Komatsu Dash 2
 motor graders

52 NEW TECHNOLOGY
 Tire sealant from
 New Holland saves
 repairs

54 AGC CHAPTER DIRECTORY
 Guide to AGC
 offices in all 50
 states and Puerto Rico

55 NEW TECHNOLOGY
 Quick looks at
 exciting new tools

60 REGIONAL ACTION

61 CLASSIFIEDS

64 EDITORIAL
 Stop the smoke and
 mirrors...free the
 Infrastructure
 Trust Funds!

ADVISORY BOARD

JOHN B. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

JOHN F. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

JOHN F. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

JOHN F. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

JOHN F. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

JOHN F. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

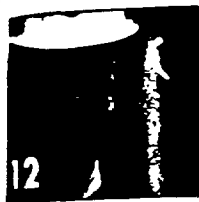
JOHN F. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

JOHN F. BROWN
 President, B. Brown & Co., Inc.
 San Francisco, CA

Special Advertising Section
 available members
 to the 700
 sponsored by
 Association.

CONSTRUCTOR

FEATURES



12



30



34



44

- 11 DATA DISASTER RELIEF** Quick teamwork reduces computer downtime after a fire.
- 12 A NEW DAY AT GSA** The General Services Administration is creating an organization that works better and costs less. A personal interview with Robert Peck, Commissioner of GSA's Public Buildings Service.
- 22 BUILDING DIVISION 2000—FOCUS ON THE FUTURE** How AGC's Building Division has improved communication and is strengthening delivery of services to members.
- 26 "LET'S DO BUSINESS"** General contracting opportunities at the U.S. Postal Service.
- 28 CONCRETE RECYCLING** A major advancement merits a Nova Award for three AGC members.
- 30 REDUCING PROJECT CYCLE TIME** AGC's Private Industry Advisory Council identifies strategies to speed up factory construction.
- 34 YOUR MOST VERSATILE EMPLOYEE** The adaptable skid steer loader is an all-in-one piece of construction equipment.
- 42 THE MANGANARO DECISION** Clinton's National Labor Relations Board assaults business. An analysis.
- 44 FORTY YEARS OF PROSPERITY** Celebrating the anniversary of America's Interstate Highway System.
- 46 EFFECTIVE PARTNERING** AIA President Raymond G. Post on commitment, communication, conflict resolution, and collaboration.

DEPARTMENTS

- 1 PRESIDENT'S MESSAGE**
Moving Forward—Together with GSA
- 6 NEWSLINE** AGC at the White House
- 10 AGC CONSTRUCTION NEWS**
- 20 NEW TECHNOLOGY**
Enkanurf system protects stadium grass
- 48 NEW TECHNOLOGY**
Quick looks at exciting new tools
- 52 AGC CHAPTER DIRECTORY** Guide to AGC offices in all 50 states and Puerto Rico
- 53 NEW TECHNOLOGY**
Furukawa's new slot drilling method
- 59 NEWSMAKERS**
- 60 CLASSIFIEDS**
- 64 EDITORIAL** Marketplace realities and the Manganaro decision

ART PHOTO BY SUE BROWN

ADVISORY BOARD

EDWARD BROWN Brown & Brown Construction Co., Inc. San Francisco	PETER D. WOOD, JR. Wood Construction Co. San Francisco	LEE BLASBY Blasby Construction Co., Inc. Orlando, Florida	DAVE L. BARNES Barnes Construction Co., Inc. Williamsburg, Virginia	THOMAS J. MCCORMACK McCormack Construction Co., Inc. St. Paul, Minnesota	JAMES W. LAM Lam Brothers, Inc. Chattanooga, Tennessee	JOHN CARLSON Carlson Corp. Los Angeles	WILLIAM W. PACE Pace Construction Co., Inc. Los Angeles
ALAN R. BROWN Brown Construction Co. San Francisco	JOHN F. KELLY III Kelley & O'Day San Francisco	ROY L. SPANGLER, JR. Spangl Construction Corp. Portland, Oregon	WILLIAM H. LYLES Lyles Construction Co., Inc. Fresno, California	BILL S. ANDERSON, JR. Anderson Construction Co., Inc. Beverly Hills, California	JOHN CALANCA Calanca Construction Co., Inc. Oakland, California	JOHN R. BLASBY Blasby Construction Co., Inc. Orlando, Florida	CONSTRUCTOR Technical Advisory Board
EDWARD W. BROWN Brown Construction Co. San Francisco	ALAN S. LAYTON Layton Construction Co., Inc. San Francisco	DAVE BROWN III Brown Construction Co. Orlando, Florida	WILLIAM A. ESTERHACH Estherach Construction Co., Inc. Palo Alto, California	WILLIAM H. WOOD Wood Brothers Co. New Brunswick, New Jersey	EDWARD ANDERSON Anderson Brothers, Inc. Greenville, South Carolina	JOHN LIND Lind Construction Co. San Jose, California	

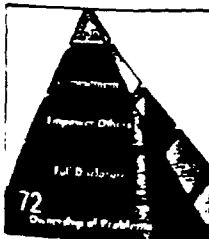
CONSTRUCTOR

CONSTRUCTION MANAGEMENT MAGAZINE

JULY 1996

Vol. LXXVIII, No. 7

FEATURES



- 18 WHAT'S NEW IN SURETY BONDS** An inside look at the industry from Lynn Schubert, president, The Surety Association of America.
- 22 SCHOOL BORING? NOT THIS SCHOOL!** AGC sponsors auger boring school.
- 25 AGC EDUCATION AND RESEARCH FOUNDATION** Partners in construction education.
- 34 ADVANCED MANAGEMENT PROGRAM SOLD OUT AGAIN. . . WHY?** Nationally recognized speakers, challenging sessions and a cornucopia of networking opportunities have made AMP the most popular AGC program ever.
- 42 YOU CAN'T TAKE IT WITH YOU** Charitable giving and estate planning techniques.
- 44 THE ROAD TO ECONOMIC PROSPERITY** Facts and figures on the U.S. Highway System.
- 48 COOPERATION, MEDIATION REPLACE LITIGATION** Dispute avoidance and resolution procedures can save you money.
- 52 SELF-PROPELLED BOOM LIFTS** A buyers' guide.
- 55 SELF-PROPELLED SCISSOR LIFTS** A buyers' guide.
- 62 AERIAL LIFTS & WORK PLATFORMS** A buyers' guide.
- 66 THE EFFECTIVE CONSTRUCTION SUPERVISOR** 10 steps to success.
- 72 THE STAGES OF PARTNERING** Why a jobsite with a foundation built on Partnering is more likely to reach a successful topping out.
- 76 "GET THE CHEMISTRY GOING"** How to deliver a knock-out presentation.
- 82 1996 BUSINESS ROUNDTABLE CONSTRUCTOR SAFETY AWARDS** Application deadline: August 14, 1996.
- 92 TIPS FOR TRENCHERS** Performing proper maintenance and observing appropriate operating practices will help to keep your trencher trenching.

DEPARTMENTS

- 7 PRESIDENT'S MESSAGE** Moving Forward—Together for a cleaner, safer and healthier environment.
- 8 NEWSLINE** AGC signs DART dispute resolution principles.
- 14 ABC CONSTRUCTION NEWS**
- 24 NEW TECHNOLOGY** OilGuard engine protection system.
- 86 NEW TECHNOLOGY** Komatsu America introduces crawler dozer.
- 88 NEW TECHNOLOGY** Dover Online is the future of elevator design.
- 90 NEW TECHNOLOGY** Goodyear gets a grip with Trackman rubber track.
- 97 NEW TECHNOLOGY** Deneb increases flexibility in job cost and payroll.
- 100 NEW TECHNOLOGY** The JCB Robot.
- 102 NEW TECHNOLOGY** Exciting new tools.
- 121 NEWSMAKERS**
- 123 REGIONAL ACTION**
- 124 CLASSIFIEDS**
- 128 EDITORIAL** Transportation doesn't cost—it pays.

CONSTRUCTOR/JULY 1996

CONSTRUCTOR

CONSTRUCTION'S MANAGEMENT MAGAZINE

AUGUST 1996

Vol. LXXVIII, No. 8

FEATURES



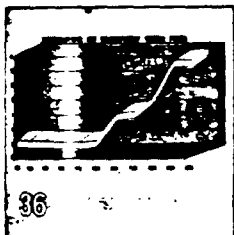
14 ENSURING PROSPERITY AGC's Highway Division advances construction's cause.

16 BUILDING AMERICA'S HIGHWAYS...FORTY YEARS OF AGC ACTIVISM Working for better highways with U.S. presidents, members of Congress, and government officials.



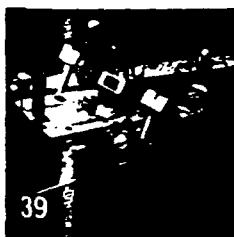
24 COVER STORY: AT THE CROSSROADS Will America's Highway Program be adequately funded for the next five years? It all depends on what Congress does in '97.

28 IN THE FAST LANE The Road Information Program (TRIP) makes the case for highway investment.



30 OUR NATION'S HIGHWAYS: A DRIVING FORCE The economic impact of our highway system.

32 NOT JUST ANOTHER FLOAT-IN In a landmark feat of engineering, Tidewater Construction installs ready-to-drive bridge spans.



33 40TH BIRTHDAY BASH Washington celebrates the birth of the Interstate Highway System and the people who made it happen.

36 WHERE'S THE MONEY? While our highways and bridges languish in a state of disrepair, lawmakers play a shell game with the Highway Trust Fund.

39 CONSTRUCTABILITY REVIEWS How North Carolina is working with the Carolinas AGC, Inc. on highway design.

DEPARTMENTS

5 PRESIDENT'S MESSAGE Political Action. Moving Forward-Together

10 ABC CONSTRUCTION NEWS TRIP cites failing highway infrastructure.

49 NEWSMAKERS

6 NEWSLINE AGC testifies before House Subcommittee on Highway Reauthorization.

41 NEW TECHNOLOGY Quick looks at exciting new tools.

52 CLASSIFIEDS

56 EDITORIAL The 4.3-cent solution

CONSTRUCTOR

CONSTRUCTION'S MANAGEMENT MAGAZINE

SEPTEMBER 1996

Vol. LXXVIII, No. 9

FEATURES



- 12 NAVFAC—DOING BUSINESS IN A NEW WAY** *CONSTRUCTOR* talks with Rear Adm. David J. Nash, chief of civil engineers.

- 16 "WE BUILD, WE FIGHT"—THE SEABEES** Ever wonder where the phrase "Can Do" came from? Read on.

- 20 HUMANS DEEMED LESS IMPORTANT THAN SUCKERS** That is sometimes the unfortunate verdict when it comes to the courts' interpretation of the Endangered Species Act.

- 22 EVERYTHING YOU ALWAYS WANTED TO KNOW ABOUT PROJECT MANAGEMENT** (But were afraid to ask!) Get it all at AGC's popular project manager course.

- 26 FROM CONFRONTATION TO COOPERATION** What Partnering has done for the U.S. Army Corps of Engineers and its contractors.

- 28 INDUSTRIAL STRENGTH** AGC's Industrial Contractors Committee promotes the interests and markets of industrial contractors.

- 30 AGC'S HEAVY/INDUSTRIAL DIVISION** Ensuring access to key military, government, and private industry officials, the division helps AGC contractors build infrastructure and industrial might across America.

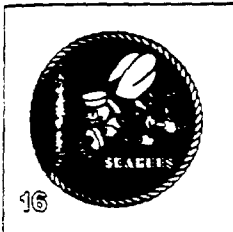
- 36 GETTING DOWN TO BUSINESS** Anxious to avoid more government shutdowns, Congress moves ahead with appropriations bills for heavy construction projects.

- 40 BOOSTING MARKET SHARE WITH METAL** How Ferguson Construction Co. (AGC) found success with preengineered metal building systems.

- 44 DIRECTORY OF METAL BUILDING MANUFACTURERS** Thirty vendors of preengineered metal building systems.

- 46 ANNOUNCING AGC'S MULTI-DISCIPLINE CONFERENCE ON PROJECT DELIVERY SYSTEMS FOR BUILDING CONSTRUCTION, OCT. 24 AND 25, 1996, CHICAGO** Key information and registration form.

- 48 "IF YOU BUILD IT..."** AGC helps build Construction Management Program at the University of Pittsburgh...and the students are coming.



DEPARTMENTS

- 5 PRESIDENT'S MESSAGE** Moving Forward—Together for better schools, better society

- 6 NEWSLINE** Proposed OSHA recordkeeping rule

- 10 ABC CONSTRUCTION NEWS** AGC members participate on GSA cost management task force

- 50 NEW TECHNOLOGY** New Holland designed the backhoe loader users asked for

- 52 ABC CHAPTER DIRECTORY** A handy guide to AGC offices in all 50 states and Puerto Rico

- 55 NEW TECHNOLOGY BRIEFS** Quick looks at exciting new tools

- 58 NEWSMAKERS**

- 59 REGIONAL ACTION**

- 60 CLASSIFIEDS**

- 64 EDITORIAL** Rebuilding America: Moving Forward—Together with ACEC

CONSTRUCTION

CONSTRUCTION'S MANAGEMENT MAGAZINE

OCTOBER 1996

Vol. LXXVIII, No. 10

FEATURES



12

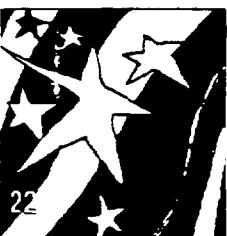
- 9 MOVING FORWARD—TOGETHER** Highlights of AGC's Midyear Meeting in Minneapolis, Sept. 8-11, 1996.



18

- 12 COVER STORY: PRESIDENTIAL CANDIDATES ADDRESS KEY CONSTRUCTION ISSUES** In a 5,000-word interview, presidential candidates Bill Clinton and Bob Dole get down to specifics on the Highway Trust Fund, wastewater infrastructure, OSHA standards, estate taxes, and much more.

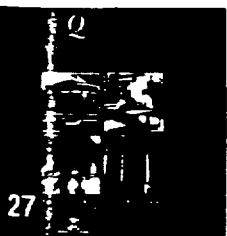
- 18 A CHANGING OF THE GUARD?** What to expect if the Democrats reclaim a majority in the U.S. House of Representatives.



22

- 22 FEARLESS FORECAST** Predicting the 1996 congressional elections.

- 27 QUALITY OF LIFE...INVESTING IN OUR CHILDREN'S FUTURE** The case for building and maintaining our public schools. A special report by AGC.



27

- 50 MANAGING THE MEDIA** The press can be your best friend or your worst enemy. Follow these simple rules to establish a sound, proactive public relations program at your company.

- 64 EDITORIAL** The ABCs of environmental myths. Are our children being brainwashed in public school, with help from the Environmental Protection Agency? Don't miss this eye-opening account from the *Wall Street Journal*.

DEPARTMENTS

PRESIDENT'S MESSAGE
Decision '96—Moving Forward—Together

5 NEWSLINE AGC PAC
fundraising sets new record at Midyear

34 NEW TECHNOLOGY BRIEFS
Quick looks at exciting new tools

60 CLASSIFIEDS

ADVISORY BOARD

BOB BRYANT
Bryant Construction Co., Inc.
San Jose, Calif.

JOHN G. WICK, JR.
Wick Construction Co.
Seattle, Washington

BOB WHEATLEY
Wheatley Construction Group, Inc.
Chicago, Illinois

BOBBY L. RABBITT
Rabbitt Construction Co., Inc.
Wilmington, Virginia

WILLIAM J. HICKSON
McClough Construction Co., Inc.
St. Paul, Minnesota

ANDREW W. LAR
Lar Construction, Inc.
Chattanooga, Tennessee

JOHN CARLSON
Carlson Construction Co.
Tucson, Arizona

TED W. PAGE
Page Construction Co.
Los Angeles, California

JOHN H. ROSE
Rose Construction Co.
San Jose, Calif.

JOHN F. BRADY III
Brady Construction Co.
Birmingham, Alabama

BOY L. SPANG, JR.
Spang Construction Corp.
Fayetteville, Virginia

WILLIAM H. LYNN
Lynn Development, Inc.
Fayetteville, Virginia

WILL L. BRIDGEMAN, JR.
Bridgeman Construction Co., Inc.
Fayetteville, Virginia

JOHN CALAN
Calan Construction Co.
Oakland, California

JOHN ASH GLASSBORO
Glassboro Construction Co.
Chattanooga, Tennessee

CONSTRUCTION
Technical Advisory Board

JOHN L. WEST
West Construction Co.
Chattanooga, Tennessee

ALAN L. MAYHEW
Mayhew Construction Co., Inc.
San Jose, Calif.

ZACK BRIDGES III
Bridges Construction Co.
Oakland, California

JOHN A. RUTENFRANZ
Rutenfranz Construction Co., Inc.
Fayetteville, Virginia

WILLIAM J. HICKSON
McClough Construction Co., Inc.
St. Paul, Minnesota

ANDREW W. LAR
Lar Construction, Inc.
Chattanooga, Tennessee

JOHN CARLSON
Carlson Construction Co.
Tucson, Arizona

TED W. PAGE
Page Construction Co.
Los Angeles, California

CONSTRUCTOR

CONSTRUCTION'S MANAGEMENT MAGAZINE

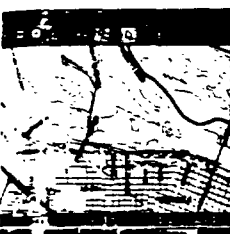
NOVEMBER 1996

Vol. LXXVIII No. 11

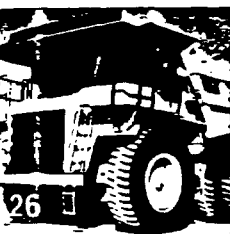
FEATURES



- 12 MOVING FORWARD TOGETHER** An in-depth look at the many programs and services of AGC's Municipal-Utilities Division.



- 17 WYOMING'S UNIQUE ONE-CALL LEGISLATION** Additional owner responsibility—is it the wave of the future?

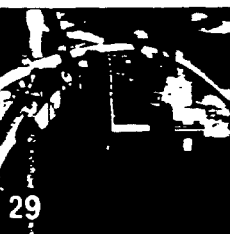


- 18 MAKING ONE-CALL WORK FOR YOU** Use these tips for quicker, better service.

- 20 NATIONWIDE ONE-CALL DIRECTORY** A listing of phone numbers for one-call centers across the U.S.

- 22 GLOBAL POSITIONING SYSTEMS** This affordable space-age tool promises to revolutionize one-call systems.

- 26 BIGGER, BOLDER, BETTER** The '97 trucks offer bigger payloads, bolder designs, more operator comfort.



- 29 UNDERGROUND APPLICATIONS** New trenchers and plows offer a variety of attachments, digging speeds, depths.

- 33 THE UGLY DUCKLING GROWS UP** Aesthetic and technical advances are changing tilt-up construction into the hit building product of the '90s.

DEPARTMENTS

1 PRESIDENT'S MESSAGE
Workforce training

8 AGC CONSTRUCTION NEWS

38 NEW TECHNOLOGY BRIEFS

45 CLASSIFIEDS

5 NEWSLINE OSHA issues revised scaffold standards

34 NEW TECHNOLOGY
Komatsu competition

43 NEWSMAKERS

48 GUEST EDITORIAL
Politics

44 REGIONAL ACTION

Cover photos: Top left: The \$50 million Corbals Water Treatment Plant Expansion, by Hensel Phelps Construction Co. (AGC). Top right: The \$30.6 million Henderson Water Reclamation Facility, Western Summit Construction Inc./TIC (AGC). Bottom right: Courtesy EPA. Bottom left: Courtesy Vermeer Manufacturing Co.

CONSTRUCTOR ADVISORY BOARD

JOHN J. BROWN
President & CEO
American Co., Inc.
New York

JOHN A. BROWN, JR.
Vice President
Suffolk Construction Co.
Suffolk, Virginia

JOHN L. BROWN
Executive Vice President
Greiner, Inc.
Greiner, Nebraska

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

JOHN L. BROWN
President
McGough Construction Co., Inc.
St. Paul, Minnesota

CONSTRUCTOR

CONSTRUCTION MANAGEMENT MAGAZINE

DECEMBER 1996

Vol. LXXVIII, No. 12

FEATURES



- 12 SIZING UP THE '96 ELECTIONS** What to expect from the 105th Congress.



- 14 BIDDING FAREWELL TO PAPER** Corps of Engineers begins putting contract bid documents on CD-ROM.



- 17 CONSTRUCTOR'S 14TH ANNUAL SOFTWARE INVENTORY—READ ME FIRST!** Looking for new software? This is where you start. Enjoy our sleek new format, crammed with more information than ever.



- 38 ONLINE SOPHISTICATES** What's new in construction software—in which we take a longer look at promising new products.

- 42 MORE BANG FOR THE BUCK** Thanks to the Wyoming Contractors Association, cities are starting to make honest cost comparisons between government-performed construction and contracting out.

- 55 AGC'S 78TH ANNUAL CONVENTION/CONSTRUCTOR EXPOSITION, MARCH 6-10, 1997, WASHINGTON, D.C.** Information and registration form.

DEPARTMENTS

PRESIDENT'S MESSAGE
Moving Forward—Together

NEWSLINE IRS publishes guidelines on independent contractor classification

AGC CONSTRUCTION NEWS

37 NEW TECHNOLOGY
AGC's Houston Chapter introduces interactive CD-ROM safety training series

46 NEW TECHNOLOGY
Thanks to the Texas Building Branch, contractors can visit the plan room without leaving their offices

48 NEW TECHNOLOGY
The StreetSmarts Solution: The software system that can manage your entire construction operation

50 NEW TECHNOLOGY
Dexter+Chaney allows project managers to access and manage current information at the jobsite

58 REGIONAL ACTION

60 TECHNOLOGY BRIEFS
New tools for the jobsite

68 CLASSIFIEDS

72 EDITORIAL
The Unequal Debate on the Environment

CONSTRUCTOR ADVISORY BOARD

JOHN J. HARRIS
Harris & Sons
Dallas, Texas

PAUL A. HILL, JR.
Hill Construction Co.
Seattle, Washington

JOHN J. KELLY, JR.
Kelley & O'Day
Beverly Hills, California

ALAN J. LUTHER
Luther Construction Co., Inc.
San Francisco, California

BOB BARNETT
Barnett Construction
Omaha, Nebraska

BOB L. SPENCE, JR.
Spencer Construction Corp.
Pittsburgh, Pennsylvania

DAVE HENNING
Henning Construction Co., Inc.
Dallas, Texas

JOHN L. BARNETT
Barnett Construction Co., Inc.
Pittsburgh, Pennsylvania

WILLIAM H. STOFF
Stoff Construction, Inc.
Pittsburgh, Pennsylvania

JOHN A. HENDERSON
Henderson Construction Co., Inc.
Pittsburgh, Pennsylvania

EDWARD J. BOWMAN
McGough Construction Co., Inc.
St. Paul, Minnesota

BOB A. ANDERSON, JR.
Anderson Construction Co., Inc.
St. Paul, Minnesota

BOB A. ANDERSON
Anderson Construction Co., Inc.
St. Paul, Minnesota

JOHN W. LEE
Lee Brothers, Inc.
Chattanooga, Tennessee

JOHN CALLAN
Callan Pipe Marfaco LP
Oakland, California

EDWARD ANDERSON
Anderson Brothers, Inc.
Greenville, South Carolina

JOHN CARLSON
Carlson Construction Co.
Tucson, Arizona

JOHN J. BLANCK
Blank Construction Co.
Greenville, Pennsylvania

JOHN LEE
Lee Brothers, Inc.
Chattanooga, Tennessee

JOHN W. PEARCE
Pearce Construction Co., Inc.
Los Angeles, California

CONSTRUCTOR
Technical Advisory Board