

wild!

te canti-
y cables
re struc-
shown is
Beneath
hangar
served
s. Over
h early
bbs. of
res.
Pat. Off.

**JT
N**

EM. PA
USTON
EANS
D. C.

RGEST
ACITY

958

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

SPECIAL REPORT

Construction Volume Exceeds \$65 Billion in 1957;
AGC Predicts \$68 Billion Total for Industry in
1958 William G. Dooly 27

GENERAL

Construction Cited as Stabilizing Force at Chamber
Symposium 31

LEGISLATION

Congress Faces Increased Costs as Result of
Sputnik Launching 33

NATIONAL ASSOCIATION

Dallas Ready for AGC 39th Convention 34
Four Surviving AGC Founders Identified 35

LABOR RELATIONS

Mitchell Relates Administration's Program for
Labor Legislation 37

APPRENTICE TRAINING

Bricklaying Contest Held in Carolinas 39
Florida Apprentice Wins Frank J. Rooney Trophy 40

HEAVY • RAILROAD

U.S. Urged to Develop Resources as Component of
Military Strength 44

BUILDING

Nuclear Research Lab Goes Up in California 52
\$107 Million Released to Capehart Program 54
5 Lease-Purchase Financial Bids Approved 54
AIA-AGC Joint Committee Recommends Change
in 'Guide to Bidding' 54

HIGHWAYS • AIRPORTS

'Jonah and the Highway': U.S. Steel Movie Cites
Role of Engineers and Contractors 57
John A. Volpe Addresses Washington, D.C. Rotary
Club 60

ACCIDENT PREVENTION

Record Number of Firms File Complete Reports in
AGC Safety Program 64

ALSO IN THIS ISSUE

News of the Month 5
Trend and Outlook 7
Constructographs 9, 11, 13
Labor Notes 17
Sidelights for Contractors John C. Hayes 19
In the States 21
Editorials 23
Chapters and Branches 69
New Equipment and Materials 80
AGC Forms and Publications 94
Advertisers' Products 96
Index of Advertisers 99

EXECUTIVE DEPARTMENT

FRANK J. ROONEY <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
GEORGE C. KOSS <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

FRANK J. ROONEY	JAMES D. MARSHALL
GEORGE C. KOSS	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., *Editor*
OSBURN ZUBER, *Associate Editor*
EDWARD A. GREENE, *Associate Editor*
DONALD R. FOXVOG, *Associate Editor*

BUSINESS DEPARTMENT

MISS MARJORIE BECK, *Business Manager*
MRS. GENEVIEVE MORRIS, *Assistant*



COVER

Cover photograph shows the steel erection phase on one of the buildings under construction at the \$10 million John Jay Hopkins Laboratory for Pure and Applied Science. Site is at Torrey Pines Mesa in northern San Diego, Calif. The general contractor on the project is Haas-Haynie-Frandsen, Inc., AGC, Beverly Hills, Calif. When completed, the laboratory will become the permanent home of the General Atomic Division of General Dynamics Corp. Photo by Fred William Carter. (Story on page 52.)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, Munsey Building, Washington 4, D. C. Subscription price \$5.00 per year. 40¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, JANUARY 1958

PRINTED BY JORD & BETHELL, INC., WASHINGTON, D. C.

PLAINTIFF'S
EXHIBIT
B&R-178

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

NATIONAL ASSOCIATION

- New AGC Officers and Directors Elected..... 23

GENERAL

- President Emphasizes National Defense in State of the Union Address..... 23
New Construction in 1957 Hit \$47.5 Billion..... 23
Improved Construction Statistics Due as Census Bureau Plans to Enter Field..... 27
House, Senate Pass Military Construction Bill..... 27

ECONOMICS

- Current Slump in Nation's Economy Will Not Be Prolonged, Ike Says..... 29

NATIONAL BUDGET

- New Budget Boosts Construction Funds 20 Per Cent... 33

LABOR RELATIONS

- President Outlines Five-Point Plan to End Labor Abuses..... 43
NLRB Decision Raps Lathers; Cites Need for Changes in Board's Rules..... 44

PUBLIC RELATIONS

- New Orleans Organizes Speakers' Bureau..... 45

HIGHWAYS • AIRPORTS

- Many Highway Developments Seen in New Session of Congress..... 47

- Congressman Praises Cost-Saving Work of Highway Contractors..... 47
Clare Miller Testifies on ABC Highway Funds..... 48
Congressman Schwengel's Bill Seeks Pay for Delivered Materials..... 51
Highway Authorization Measure Is Introduced..... 52
Budget Makes Demands on Highway Trust Fund..... 52
Congress Receives Two Highway Reports..... 53

BUILDING

- GSA Juggles \$50 Million in New Projects as Lease-Purchase Logjam Loosens..... 64
Subcontractor Bill Is on Senate Calendar..... 64

EDUCATION

- Congress Faces Fight on Federal Aid to Schools..... 65

HEAVY • RAILROAD

- New Orleans Bridge Nearing Completion..... 68
New England States Plan Storage Dam to Benefit Industries..... 68

ALSO IN THIS ISSUE

- News of the Month..... 5
Trend and Outlook..... 7
Constructographs..... 9, 11, 13
Labor Notes..... 17
Sidelights for Contractors..... John C. Hayes 19
Editorials..... 21
Chapters and Branches..... 71
New Equipment and Materials..... 79
AGC Forms and Publications..... 84
Advertisers' Products..... 87
Index of Advertisers..... 89

EXECUTIVE DEPARTMENT

FRANK J. ROONEY, President
GEORGE C. KOSS, Vice President
WILLIAM MUIRHEAD, Secretary-Treasurer
JAMES D. MARSHALL, Publisher
WILLIAM E. DUNN, Associate Publisher
JOHN B. SWEM, Asst. Secretary-Treasurer
JOHN C. HAYES, Legal Counsel

BOARD OF DIRECTORS

FRANK J. ROONEY, JAMES D. MARSHALL
GEORGE C. KOSS, WILLIAM E. DUNN
WILLIAM MUIRHEAD

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., Editor
OSBURN ZUBER, Associate Editor
EDWARD A. GREENE, Associate Editor
DONALD R. FOXVOG, Associate Editor

BUSINESS DEPARTMENT

MISS MARJORIE BECK, Business Manager
MRS. GENEVIEVE MORRIS, Assistant



COVER

The placing of a 100-foot, 36-ton steel section ties together the two cantilever arms of the main span of the Greater New Orleans Bridge, bringing the Mississippi River structure a significant step closer to completion. The main span, with a length of 1,575 feet, is the longest cantilever span in the United States, and the third longest in the world. Including approaches, the entire bridge will be more than 12,000 feet long. It is being built by the Mississippi River Bridge Authority. Photograph courtesy Bethlehem Steel Company. (Story on page 68.)

EDITORIAL AND ADVERTISING OFFICES

Munsey Building, Washington 4, D. C. (DIstrict 7-1306)

WESTERN ADVERTISING OFFICE

L. B. HAMMOND, Manager
R. H. HAMMOND, Assistant Manager
30 North LaSalle St., Chicago 2, Ill. (RAndolph 6-1843)

EASTERN ADVERTISING OFFICE

JAMES C. GREENWOOD, Manager
11 East 47th St., New York 17, N. Y. (PLaza 3-3375)

WEST COAST ADVERTISING OFFICE

M. D. PUGH, Manager
Box 32188, Los Angeles 32, Calif. (CApitol 2-8857)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, Munsey Building, Washington 4, D. C. Subscription price \$5.00 per year. 40¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, FEBRUARY 1958

PRINTED BY JUDD & DETMERS, INC. WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

NATIONAL ASSOCIATION

Convention Acts on Labor Issues, Legislation.....	23
Actions of the 39th Convention.....	25
AGC Installs Officers for 1958.....	28
Rogers Appraises Progress of AGC Toward Aims.....	30
Heldenfels Outlines Vigorous 1958 Program.....	32
Marshall Reports AGC in "Strongest Position".....	36
Heldenfels Names Committee Chairmen.....	38
Tribute Paid to AGC Founders.....	40
Reports Made by 17 Standing Committees.....	43

LABOR RELATIONS

Labor Activities Highlight Convention.....	33
AGC Labor Policy Statement.....	34
Building Trades President Responds to AGC.....	35
Sen. Curtis Speaks on Labor Immunities.....	38

LEGISLATION

Legislation Affecting Construction Reviewed.....	61
--	----

GENERAL

Construction Is Key to Anti-Recession Plans.....	63
Germann Warns Contractors About Security.....	63

PUBLIC RELATIONS

Convention Receives Nationwide Press Coverage.....	66
AGC Statement on Labor Draws Wide Attention.....	70
Public Relations Committee Reviews Activities.....	72

EDUCATION

Education Committee Plans Uses of AGC Films.....	74
--	----

BUILDING

Building Contractors Review Problems, Hear Speakers.....	76
Chatelain Emphasizes School Construction.....	77
Burnett Asks 'New Dimension' Leadership.....	77
Contractor Problems Discussed at Work Shop.....	78

APPRENTICE TRAINING

Federal Aid to Vocational Education Discussed.....	84
--	----

HEAVY • RAILROAD

Heavy Construction Session Studies Public Works.....	85
Dexheimer Outlines Reclamation Program.....	86
Pittsburgh Official Warns of Blight in Cities.....	86

EQUIPMENT

Tax Relief Urged in Equipment Depreciation.....	90
---	----

HIGHWAYS • AIRPORTS

More Federal Funds for Highways Favored.....	92
Highway Session Hears Timely Discussions.....	94
Tallamy Sees Busy Summer Ahead on Highways.....	96
AASHTO Official Speaks on Highway Program.....	97
Heldenfels Testifies before Roads Subcommittee.....	98

NATIONAL DEFENSE

Corps of Engineers Sees Big Spring Program.....	102
Naval Construction on "Austerity" Level.....	103
Air Force Plans Massive Building Program.....	106

ACCIDENT PREVENTION

AGC Accident Prevention Program Studied.....	109
AGC Honors Safety Award Winners.....	111

ALSO IN THIS ISSUE

News of the Month.....	5
Trend and Outlook.....	7
Constructographs.....	9, 11, 13
Labor Notes.....	17
Sidelights for Contractors.....	John C. Hayes 19
Editorials.....	21
Chapters and Branches.....	115
Men and Events.....	122
New Equipment and Materials.....	127
AGC Forms and Publications.....	134, 135
Advertisers' Products.....	137
Index of Advertisers.....	139

EXECUTIVE DEPARTMENT

FRANK J. ROONEY <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
GEORGE C. KOSS <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

FRANK J. ROONEY	JAMES D. MARSHALL
GEORGE C. KOSS	
WILLIAM MUIRHEAD	WILLIAM E. DUNN

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., <i>Editor</i>
OSBURN ZUBER, <i>Associate Editor</i>
EDWARD A. GREENE, <i>Associate Editor</i>
DONALD R. FOXVOG, <i>Associate Editor</i>

BUSINESS DEPARTMENT

MISS MARJORIE BECK, <i>Business Manager</i>
MRS. GENEVIEVE MORRIS, <i>Assistant</i>



COVER

Fred W. Heldenfels, Jr., left, Heldenfels Brothers, Corpus Christi, Texas, receives the gavel which is symbolic of the presidency of The Associated General Contractors of America, Inc., from Lester C. Rogers, Bates and Rogers Construction Corp., Chicago, the outgoing president. Mr. Heldenfels is a prominent Texas highway contractor while Mr. Rogers is a leading heavy contractor. (Photographs of the 39th annual AGC convention in this issue are by Francis Photographers of Dallas.)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, Munsey Building, Washington 4, D. C. Subscription price \$5.00 per year. 40¢ per copy (July \$1.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, MARCH 1958

PRINTED BY JUDG & BETHELMAN, INC. WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

GENERAL

- Congress, Administration Fight Downward Economic Trend 23
- General Bragdon Says 'WPA' Will Not Be Necessary... 24

HIGHWAYS • AIRPORTS

- \$7.7 Billion Highway Bill Passed to Help Bolster Sagging Economy 26
- U. S. Payment for Stockpiled Materials, Initiated by AGC, Approved by Congress 26
- Approximate Federal-Aid Highway Funds Annually for Fiscal 1960 and 1961 27
- AGC Highway Conference Is Big Success 31
- AASHO-AGC Group Holds Two Meetings 38

HEAVY • RAILROAD

- Recession Solution Sought in Bills for Federal Aid to Public Works 43

BUILDING

- President Signs Housing Bill to Speed Up New Construction 48
- House Would Kill Lease-Purchase; Bill Provides Money for 66 Buildings 51
- President Accelerates Construction Programs 51
- Dyer Scores Unsound Bidding 52

PUBLIC RELATIONS

- San Diego Wins Constructionizing Award 66
- AGC Firm Erects Progress Report Board 66

EDUCATION

- Response to AGC Movie, 'The Constructors,' Is Enthusiastic 68

LABOR RELATIONS

- NLRB Lays Down Standards for Legal Operation of Hiring Halls 72

NATIONAL ASSOCIATION

- AGC to Occupy New Building Next Month 77
- National Staff and Chapter Executives to Meet 77

ACCIDENT PREVENTION

- Kirk Retires from National Staff 81

APPRENTICE TRAINING

- Apprenticeship at Local Level Simon Korshoj 85
- New Aids in Apprenticeship and Training 87
- Apprenticeship Fund Amendment Not Likely 87

ALSO IN THIS ISSUE

- News of the Month 5
- Trend and Outlook 7
- Constructographs 9, 11, 13
- Labor Notes 15
- Sidelights for Contractors John C. Hayes 19
- Editorials 21
- Chapters and Branches 29
- Men and Events 33
- New Equipment and Materials 96
- AGC Forms and Publications 102, 103
- Advertisers' Products 105
- Index of Advertisers 107

EXECUTIVE DEPARTMENT

FRANK J. ROONEY <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
GEORGE C. KOSS <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

FRANK J. ROONEY	JAMES D. MARSHALL
GEORGE C. KOSS	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., *Editor*
OSBURN ZUBER, *Associate Editor*
EDWARD A. GREENE, *Associate Editor*
DONALD R. FOXVOG, *Associate Editor*

BUSINESS DEPARTMENT

MISS MARJORIE BECK, *Business Manager*
MRS. GENEVIEVE MORRIS, *Assistant*



COVER

Journeyman mason Peter Dansberry, right, who has worked in the masonry trade almost 30 years, instructs James Buckley, youthful masonry apprentice, in the fine points of the trade as the men work on the new AGC building in Washington, D. C. Both are employed by McLeod and Romborg Stone Co., Inc., subcontractors for Joseph F. Nebel Co., AGC, Washington, D. C., general contractor for the AGC building. See page 77 for a story about the new building. (Photo by Reni.)

EDITORIAL AND ADVERTISING OFFICES

Munsey Building, Washington 4, D. C. (District 7-1306)

WESTERN ADVERTISING OFFICE

L. B. HAMMOND, *Manager*
R. H. HAMMOND, *Assistant Manager*
30 North LaSalle St., Chicago 2, Ill. (RAndolph 6-1843)

EASTERN ADVERTISING OFFICE

JAMES C. GREENWOOD, *Manager*
11 East 47th St., New York 17, N. Y. (PLaza 3-3375)

WEST COAST ADVERTISING OFFICE

M. D. PUGH, *Manager*
Box 32188, Los Angeles 32, Calif. (CApital 2-8837)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, Munsey Building, Washington 4, D. C. Subscription price \$5.00 per year. 66¢ per copy (July \$8.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, APRIL 1958

PRINTED BY JUBB & STEWELL, INC. WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

GENERAL

Eisenhower Administration Says Recession Is Now Leveling Off	23
1957 Construction Failures Reach New High	24
Construction Industry Failures Since 1950	24

INDUSTRY RELATIONS

Marshall Addresses Surety Bond Producers	25
--	----

NATIONAL ASSOCIATION

Vice President Nixon to Speak at Dedication of AGC Building	30
AGC Seeks Names of Charter Member Firms	32
63 Firms Tentatively Identified as AGC Charter Members	32

LABOR RELATIONS

Senate Committee Begins Full-Scale Hearings to Revise Basic Labor Laws	37
Landrum Group to Start Davis-Bacon Hearings	38
AFL-CIO's Political Committee Spotlights 'Unfriendly' Senators	40

APPRENTICE TRAINING

Apprenticeship Vital to Construction Firms, J. Leo Norton	42
---	----

HIGHWAYS • AIRPORTS

President Signs New Highway Act, But Criticizes Two 'Grave Defects'	46
Average Highway Bid Prices Drop 2 Per Cent	46
Highway Contracts Average \$325,000	47
AGC Supports \$1 Billion Airport Program	48
Additional Federal-Aid Highway Funds for Fiscal Year 1959	50

HEAVY • RAILROAD

Fate of Rivers and Harbors Bill Uncertain After Presidential Veto	52
Western Builds World's Largest Truck .. Ralph J. Smith	53
Bid Invitations Issued on Flaming Gorge Dam	56

BUILDING

Building Research Institute Stages 7th Annual Meeting in Washington	60
918 Post Offices Under Construction by This Fall	66

ACCIDENT PREVENTION

Safety Conference Urges Five Basic Steps	67
--	----

RESEARCH • METHODS

Helicopters Cut Costs as 'Flying Cranes'	70
--	----

PUBLIC RELATIONS

West Texas AIA-AGC Chapters Sponsor Economic Dinner	73
Chapter Begins PR Campaign With Architects	73

EDUCATION

Orders Mounting for Educational Film	75
ASCE Urges Funds for Teachers, Graduates	75

ALSO IN THIS ISSUE

News of the Month	5
Trend and Outlook	7
Constructographs	9, 11, 13
Labor Notes	17
Sidelights for Contractors	John C. Hayes
Editorials	19
Chapters and Branches	79
Men and Events	84
New Equipment and Materials	86
AGC Forms and Publications	82
Advertisers' Products	93
Index of Advertisers	93

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., <i>Editor</i>
OSBURN ZUBER, <i>Associate Editor</i>
EDWARD A. GREENE, <i>Associate Editor</i>
DONALD R. FOXVOG, <i>Associate Editor</i>

BUSINESS DEPARTMENT

MISS MARJORIE BECK, <i>Business Manager</i>
MRS. GENEVIEVE MORRIS, <i>Assistant</i>



COVER

More than 57,000 tons of steel was used in construction of Chicago's Calumet Skyway Toll Bridge which has been completed at a cost of more than \$100 million. The skyway extends nearly eight miles, connecting the city with the Indiana Toll Road, and will speed the flow of traffic on Chicago's badly congested Southside. Paving on the giant project was done by a great number of general contractors, including many AGC members.

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, Munsey Building, Washington 4, D. C. Subscription price \$5.00 per year. 40¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, MAY 1958

PRINTED BY JUDG & BETWEILER, INC. WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

GENERAL

Government Leaders Oppose Major Tax Cuts	25
U. S. Chamber Acts on Construction Issues	26
Fast Depreciation Bill Offered in Congress	26
Contract Method Strengthened by Bonding	27

NATIONAL ASSOCIATION

Russian Building Officials Visit AGC	31
AGC Staff Moves Offices to New Building	31
Kirk Honored by AGC National Staff	32
Bryson Joins Accident Prevention Staff	32

LABOR RELATIONS

Fooney Gives AGC Recommendations for Taft-Hartley Amendments	38
Supplemental Statement to Senate Labor Group	40

BUILDING

Huge Shopping Center Under Construction	43
Senate Group Considers Lease-Purchase Program	43

HIGHWAYS • AIRPORTS

GAO Questions Interstate Cost Estimates	45
'Raids' on Trust Fund Turned Back in House	45
Progress of Highway Program Satisfactory	46

HEAVY • RAILROAD

Contractors Warn of Added Costs in 'Stop-and-Go' Construction	50
Engineers' Chief Warns Failure to Develop Water Resources Can Limit Growth	52

PUBLIC RELATIONS

AGC of Delaware Sponsors Highway Day	57
San Diego Chapter Honors State Engineer	57

EQUIPMENT

Contractors Design Special Machines	59
---	----

ALSO IN THIS ISSUE

News of the Month	5
Trend and Outlook	7
Constructographs	9, 11, 13
Labor Notes	17
Sidelights for Contractors	19
In the States	21
Editorials	23
Chapters and Branches	62
Men and Events	68
New Equipment and Materials	71
AGC Forms and Publications	78
Advertisers' Products	81
Index of Advertisers	83

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., <i>Editor</i>
OSBURN ZUBER, <i>Associate Editor</i>
EDWARD A. GREENE, <i>Associate Editor</i>
DONALD R. FOXVOG, <i>Associate Editor</i>
PHILLIP RAY LACKEY, <i>Associate Editor</i>

BUSINESS DEPARTMENT

MISS MARJORIE BECK, <i>Business Manager</i>
MRS. GENEVIEVE MORRIS, <i>Assistant</i>



COVER

A maze of concrete and steel marks construction of the 1,025-foot-long powerhouse at Priest Rapids Dam on the Columbia River in central Washington, 125 miles southeast of Seattle. On the left and center are the project's water intake structures, with the draft tube exits on the bottom. Merritt-Chapman & Scott Corporation, AGC, New York, is building the dam and hydroelectric plant under a \$92 million contract.

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, AGC Building, 1937 E St., N. W., Washington 6, D. C. Subscription price \$3.00 per year, 40¢ per copy (July \$1.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, JUNE 1958

PRINTED BY JOHN A. BETHELLE, INC., WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

AGC DEDICATION

AGC Dedication Ceremony Impressive and Colorful	28
AGC President Heldenfels Says Construction Fills 'Historic' Role	29
Vice President Nixon Dedicates AGC Headquarters Building	31
The Sealing of the Cornerstone	34
Photo Tour of AGC Building	38
AGC National Staff (Photograph)	43

GENERAL

AGC Survey Shows Construction Again Leads Way Out of Slump	47
--	----

FORECAST: 2000 A.D.

'Renaissance of the City' by Year 2000. With New Types of Construction. Foreseen	Ray Lackey	51
Architecture in the Year 2000	Joseph Watterson	53
The Building of the Future	J. J. Svec	59
Public Works Engineering in 2000 A. D.	W. A. Hardenbergh	63
Architectural Predictions for the Year 2000	Emerson Goble	65
Construction Techniques in 2000 A. D.	Anthony N. Mavroudis	70
Military Construction in 2000 A. D.	Col. F. H. Kohloss	71
Electrical Construction in 2000 A. D.	George B. Roscoe	77
Highways in the Year 2000	A. Perrin	81
Roadbuilding: 2000 A. D.	Harold J. McKeever	88
Construction Trends in 2000 A. D.	Lawrence Lessing	94

PUBLIC RELATIONS

AGC Receives Record Coverage by Press	98
AGC Officials Join in Louisiana Ceremonies	104

EDUCATION

AGC Color Film Gets Good Reception in California	108
--	-----

ACCIDENT PREVENTION

AGC Publishes Revised Safety Manual in Loose Leaf Edition	112
Labor and Management Back Safety in Houston	113
St. Louis Chapter Presents Certificates	119
Delaware and California Contractors Win AGC Safety Awards	119
Safety Device Protects Crane Operators	117

LABOR RELATIONS

The Supreme Court and Hot Cargo Clauses	124
Statewide Wage Determinations Upset	125
Senate OK's 'Moderate' Labor Law; Rejects Strengthening Amendments	126
Question: Can Unions Properly Spend Members' Dues for Political Contributions?	128

BUILDING

Congress Expected to Deal Death Blow Lease-Purchase Program	135
AGC-CMSCI Joint Committee Agrees On Draft Resolution	138
Action on Subcontractor Bill Expected In July	136

APPRENTICE TRAINING

St. Paul Apprentice Wins National Contest	138
---	-----

HIGHWAYS • AIRPORTS

AGC Highway Conference Held at Salt Lake City	144
Start on Jet Airport for Nation's Capital	145
Half of Highway Jobs Run Under \$100,000	149
1957 Highway Contract Sizes by States (Table)	150

HEAVY • RAILROAD

Congress Sends Compromise Rivers-Harbors Bill to President	155
Bill Would Aid Localities to Make Advance Plans for Water Needs	159

A. G. C. DIRECTORY

1958 Directory of AGC Membership (Index)	D-1
--	-----

ALSO IN THIS ISSUE

News of the Month	5
Trend and Outlook	7
Constructographs	9, 11, 15
Labor Notes	17
Sidelights for Contractors	Travis Brown
In the States	21
Editorials	23
Men and Events	161
New Equipment and Materials	167
Advertisers' Products	176
Index of Advertisers	183
AGC Forms and Publications	188

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., <i>Editor</i>
OSBURN ZUBER, <i>Associate Editor</i>
EDWARD A. GREENE, <i>Associate Editor</i>
DONALD R. FOXVOG, <i>Associate Editor</i>
PHILLIP RAY LACKEY, <i>Associate Editor</i>

BUSINESS DEPARTMENT

MISS MARJORIE BECK, <i>Business Manager</i>
MRS. GENEVIEVE MORRIS, <i>Assistant</i>



EDITORIAL AND ADVERTISING OFFICES

1957 E Street, N. W., Washington 6, D. C. (EXecutive 3-2040)

WESTERN ADVERTISING OFFICE

L. B. HAMMOND, *Manager*
R. H. HAMMOND, *Assistant Manager*
30 North LaSalle St., Chicago 2, Ill. (RAnolph 6-1845)

EASTERN ADVERTISING OFFICE

JAMES C. GREENWOOD, *Manager*
11 East 47th St., New York 17, N. Y. (PLaza 3-3375)

WEST COAST ADVERTISING OFFICE

M. D. PUGH, *Manager*
Box 32188, Los Angeles 32, Calif. (CApitol 2-8857)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, AGC Building, 1957 E St., N. W., Washington 6, D. C. Subscription price \$5.00 per year, 40¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, JULY 1958

PRINTED BY JUDG & DETWEILER, INC., WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

GENERAL

Construction Activity Bolsters Economy	24
FCC Will Retain Special Industrial Radio Service	24
Business Urged to Build Now to Speed Upturn	25
Changes in Pump and Mixer Standards Studied	25

NATIONAL ASSOCIATION

Midyear Board Meeting of AGC to be Held in Atlanta Sept. 22-24	26
AGC Executive Committee Holds Summer Meeting in Mexico City	27

PUBLIC RELATIONS

Detroit Chapter Wins Praise for Brochure	28
Reprints of <i>Engineering News-Record</i> Stories on AGC Now Available	28
'Sidewalk Superintendents' Get Recognition	29
TV Program Honors New Orleans Chapter	30

LABOR RELATIONS

Secondary Boycotts in the Construction Industry	31
---	----

BUILDING

Congress Kills Lease-Purchase Except for 29 Projects	37
Omnibus Housing Proposal May Not Pass	37
Subcontractor Bill May Lose Out in Rush to Adjourn	38
Frank J. Rooney Addresses AIA on Cost Estimates	38
Lift-Slab Construction for Vacation Homes	33

EDUCATION

Construction Training Urged for Colleges	40
Stanford to Study Cost Cutting in Construction	40

APPRENTICE TRAINING

Apprenticeship Conference Held in Groton, Conn	41
--	----

HIGHWAYS • AIRPORTS

\$3.4 Billion Apportioned for Highways	43
M. Clare Miller Stresses Orderly Highway Planning Before Congressional Committee	46
Max C. Harrison Urges House Committee to Expand Airport Program	48
What the AGC Does for Highway Contractors	52
Average Bid Prices for Highways Rise Slightly	53
Federal-Aid Highway Funds Apportioned for Fiscal Year 1960	54

HEAVY • RAILROAD

Public Works Appropriation Bill Held Up in Con- ference Committee	55
Blocking of Missouri River at Oahe Dam Is Set	56
Rivers-Harbors Bill Is Signed by President	57
AGC Challenges TVA Construction, Labor Policies	58

ALSO IN THIS ISSUE

News of the Month	5
Trend and Outlook	7
Constructographs	9, 11, 13
Labor Notes	13
Sidelights for Contractors	19
Editorials	21
Men and Events	61
New Equipment and Materials	63
AGC Forms and Publications	66, 67
Advertisers' Products	69
Index of Advertisers	71

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR., <i>Editor</i>
OSBURN ZUBER, <i>Associate Editor</i>
EDWARD A. GREENE, <i>Associate Editor</i>
DONALD R. FOXVOG, <i>Associate Editor</i>
PHILLIP RAY LACKEY, <i>Associate Editor</i>

BUSINESS DEPARTMENT

MISS MARJORIE BECK, <i>Business Manager</i>
MRS. GENEVIEVE MORRIS, <i>Assistant</i>



COVER

Nighttime fireworks signified the official opening of Michigan's \$100 million Mackinac Straits Bridge on June 28. The five-mile bridge is, from anchorage to anchorage, the longest suspension bridge in the world. It connects Michigan's upper and lower peninsulas and was three and a half years under construction. On hand for the dedication were many dignitaries, including Michigan Gov. G. Mennen Williams. The substructure contractor was Merritt-Chapman & Scott Corp., AGC.

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, AGC Building, 1957 E St., N. W., Washington 6, D. C. Subscription price \$5.00 per year, 46¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, AUGUST 1958

PRINTED BY JUDN & RETZELER, INC. WASHINGTON 6, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

GENERAL

Contract Awards Near Record at Midyear	23
AGC Boards Meet in Atlanta Sept. 22-24	23
AGC to Co-sponsor Construction Conference	23
AED Hits Government Equipment Disposal Methods	25

LEGISLATION

AGC Speaks for Construction in Busy Congressional Year	28
AGC Actions Before Senate Committees	28
AGC Actions Before House Committees	29

LABOR RELATIONS

Congress Passes Few Labor Laws Leaving Much to Be Done Next Year	41
--	----

BUILDING

Subcontractor Measure Fails Once Again	43
Lease-Purchase Death Certificate Is Signed	43
St. Louis Contractors Adopt Bidding Code	44
Public School Classroom Construction Totals \$2.88 Billion in 1957-58	44
MSBA Directors Review Modular Measure Plans	45
New Housing Legislation Dies in Congress	46
AGC Studies Documents Being Revised by AIA	46

APPRENTICE TRAINING

Southern States Conference Studies Apprentice Need In Industrial South	48
New Aids In Apprenticeship and Training	48

HEAVY • RAILROAD

Missouri River Blocked by Oahe Dam	53
\$1.118 Billion Public Works Bill Is Approved	58
TVA Self-financing Bill Dies Without House Vote	59

HIGHWAYS • AIRPORTS

Highway Capital Expenditures to Reach \$6.2 Billion This Year	64
Ellis H. Armstrong Named Commissioner of Roads	65
President Vetoes \$500 Million Airport Bill	66
Basis of Interstate Apportionment Extended	66

ACCIDENT PREVENTION

First Two Safety Manual Reprints Available	69
AGC of St. Louis Sponsors Safety Week	70

PUBLIC RELATIONS

TV Cameraman Films Ride on Tractor	73
AGC Constructionizing Award Goes to CPB	73
Press Conferences Yield Good Results for AGC of Minnesota	74
Carolinas Branch	75
AGC Building Dedication Film Now Available	76

EDUCATION

Congress Passes Education Bill To Aid Science and Technical Training	79
ASCE-AGC Conference Held in California	79

MEN AND EVENTS

Virginia Branch Honors Past Presidents	82
South Texas Chapter Honors Naval Officer	83
Michigan Road Builders Dedicate New Home	84
Personnel Changes at Building Research Institute	88
Schedule of Meetings	88

ALSO IN THIS ISSUE

News of the Month	5
Trend and Outlook	7
Constructographs	9, 11, 13
Labor Notes	17
Sidelights for Contractors	19
Editorials	21
New Equipment and Materials	91
AGC Forms and Publications	98, 99
Advertisers' Products	100
Index of Advertisers	103

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, JR. <i>Editor</i>
OSBURN ZUBER <i>Associate Editor</i>
EDWARD A. GREENE <i>Associate Editor</i>
DONALD B. FOXVOG <i>Associate Editor</i>
PHILLIP RAY LACKEY <i>Associate Editor</i>

BUSINESS DEPARTMENT

MISS MARJORIE BECK <i>Business Manager</i>
MRS. GENEVIEVE MORRIS <i>Assistant</i>



BPA

COVER

The new Air Force Academy at Colorado Springs, Colo., is scheduled to open this fall. The imposing educational institution will feature glass and aluminum on every major building. At the heart of the fresh, contemporary design are the largest aluminum extrusions ever produced for architectural purposes. The cover scene shows the inner court yard of the Cadet Quarters Building built by Robert E. McKee, General Contractor, Inc., AGC, Santa Fe, N. M.

EDITORIAL AND ADVERTISING OFFICES

1937 E Street, N. W., Washington 6, D. C. (EXecutive 3-2040)

WESTERN ADVERTISING OFFICE

L. B. HAMMOND, *Manager*
E. H. HAMMOND, *Assistant Manager*
80 North LaSalle St., Chicago 2, Ill. (RAndolph 6-1843)

EASTERN ADVERTISING OFFICE

JAMES C. GREENWOOD, *Manager*
11 East 47th St., New York 17, N. Y. (PLaza 3-3376)

WEST COAST ADVERTISING OFFICE

M. D. PUGH, *Manager*
Box 32128, Los Angeles 22, Calif. (CApital 2-8857)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, AGC Building, 1937 E St., N. W., Washington 6, D. C. Subscription price \$5.00 per year. 44¢ per copy (July \$5.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, SEPTEMBER 1958

PRINTED BY JORD & BETHELSON, INC., WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

AGC BOARD MEETING

AGC Holds Board Meeting in Atlanta	22
Jerome Fenton, Dean Barron Address AGC Board Meeting	25
Cawdrey Nominated for President, Volpe for Vice President	27
Building, Heavy, Highway Directors Meet Separately ..	30
AGC Committees Report to Atlanta Board Meeting	32
Georgia Branch Host to Board Meeting	42

HIGHWAYS • AIRPORTS

Flexible Airfield Pavement Tested at Columbus AFB <i>Ray Lackey</i>	46
Senate Hearing Reflects Credit on Work of Public Roads Bureau	Osburn Zuber 48

HEAVY • RAILROAD

Large Dams Congress Considers Future Trends	50
---	----

BUILDING

Bid Submission Plan Begins to Catch On	54
Unique Method of Backforming in Pouring Opposite Walls Developed	54

RESEARCH • METHODS

Prefabricated Aluminum Bridge Developed	57
---	----

PUBLIC RELATIONS

West Virginia Chapter Sponsors Road Exhibit at State Fair	58
Texas Branch Publishes 1957-58 Progress Report	58

ALSO IN THIS ISSUE

News of the Month	5
Trend and Outlook	7
Constructographs	9, 11, 13
Labor Notes	17
Sidelights for Contractors	Travis Brown 19
Editorials	21
Men and Events	60
New Equipment and Materials	67
AGC Forms and Publications	74, 75
Advertisers' Products	76
Index of Advertisers	79

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, <i>Editor</i>
OSBURN ZUBER, <i>Associate Editor</i>
EDWARD A. GREENE, <i>Associate Editor</i>
DONALD R. FOXVOG, <i>Associate Editor</i>
PHILLIP RAY LACKEY, <i>Associate Editor</i>



BUSINESS DEPARTMENT

MISS MARJORIE BECK, <i>Business Manager</i>
MRS. GENEVIEVE MORRIS, <i>Assistant</i>



COVER

Work is underway on the Ohio North-South Freeway, 300 miles from Conneaut, on Lake Erie, to Cincinnati, on the Ohio River. Now designated as State Route 1, the highway will eventually receive a federal interstate number as part of the interstate system.

The S. J. Groves & Sons Co., AGC, Minneapolis, is the general contractor of the four-lane divided highway which is 24 feet wide each way with an 84 foot median strip.

The pictured scene is three miles southeast of West Salem, Ohio. The Conneaut to Columbus section is to be completed next year and the Columbus to Cincinnati section is scheduled for completion in 1961. (Photo by Don Gehring, Wire Reinforcement Institute.)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office. AGC Building, 1957 E St., N. W., Washington 6, D. C. Subscription price \$5.00 per year. 66¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1948, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, OCTOBER 1958

PRINTED BY JUDG & BETHELL, INC., WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

GENERAL

- Mobile Radio Plan Ready for Operation Soon..... 22
- Concrete and Aggregates Producers Form Joint Cooperative Committee with AGC..... 22
- Maintenance and Repair High of \$17.7 Billion Set in 1957 23

LEGISLATION

- Parrott Urges AGC Members to Contact Local Congressmen..... 28

CONTRACT METHOD

- Question of Contracting-Out Clouds Industry Horizon 20

PUBLIC RELATIONS

- Northern California Chapter Display Wins Award at State Fair..... 40
- AGC Building Dedication Film Is Well Received..... 40

ACCIDENT PREVENTION

- Safety Manual in 2nd Printing; 14 Booklets to Appear.. 43
- National Safety Council Honors Harry Kirk..... 43

RESEARCH • METHODS

- Use of Earth Resistivity Tests Grows for Subsurface Problems..... 46

HIGHWAYS • AIRPORTS

- America's 'Most Important Road' Is Opened
—Donald R. Foxvog 50
- Dickerson Addresses SASHO on Relations Between Contractors and Highway Officials..... 52

- Finances and Labor Emphasized at Highway Conference in Birmingham..... 53
- Conference Studies Coordinated Planning..... 55
- Contractors Set Records in Conversion of Beale AFB.. 56

BUILDING

- Bloomfield Named Executive Director of MBSA..... 58
- Crash Program Used for School Building..... 59
- Urban Trends to be Discussed at National Construction Industry Conference..... 62

HEAVY • RAILROAD

- Colorado River is Spanned at Glen Canyon
—Kenneth R. MacDonald 66
- Airfield Paving Report Expected This Month..... 68

NATIONAL DEFENSE

- Summer Training Ends For Reserve Units..... 70

MEN AND EVENTS

- National AGC Officers Visit Five New England Chapters..... 73
- Strauss Replaces Weeks in Commerce Post..... 75
- Boeing Official Wins Industrialist Honor..... 76
- Boards of Two California Chapters Vote to Merge.... 77
- Calendar of Events..... 81

ALSO IN THIS ISSUE

- News of the Month..... 5
- Trend and Outlook..... 7
- Constructographs..... 9, 11, 13
- Labor Notes..... 17
- Sidelights for Contractors..... Travis Brown 19
- Editorials..... 21
- New Equipment and Materials..... 24
- AGC Forms and Publications..... 28
- Advertisers' Products..... 24
- Index of Advertisers..... 27

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, *Editor*
OSBURN ZUBER, *Associate Editor*
EDWARD A. GREENE, *Associate Editor*
DONALD R. FOXVOG, *Associate Editor*
PHILLIP RAY LACKEY, *Associate Editor*



IBPA

BUSINESS DEPARTMENT

MISS MARJORIE BECK, *Business Manager*
MRS. GENEVIEVE MORRIS, *Assistant*

COVER

The soaring steel arch span of the Glen Canyon Bridge symbolizes the projects now underway to turn a desolate corner of the United States into a productive land. The 1,000-foot-long bridge rises 800 feet above the Colorado River. It is being constructed by the joint venture firm of Kiewit-Judson Pacific Murphy, at a site just downstream from the Glen Canyon Dam which is also under construction. Story on page 66. (Photograph courtesy Bureau of Reclamation.)

EDITORIAL AND ADVERTISING OFFICES

1937 E Street, N. W., Washington 6, D. C. (EXecutive 3-2040)

WESTERN ADVERTISING OFFICE

L. B. HAMMOND, *Manager*
R. H. HAMMOND, *Assistant Manager*
30 North LaSalle St., Chicago 2, Ill. (RAndolph 6-1845)

EASTERN ADVERTISING OFFICE

JAMES C. GREENWOOD, *Manager*
11 East 47th St., New York 17, N. Y. (PLaza 3-3373)

WEST COAST ADVERTISING OFFICE

M. D. PUGH, *Manager*
P. O. Box 633, Altadena, Calif. (SYcamore 7-2894)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, AGC Building, 1937 E St., N. W., Washington 6, D. C. Subscription price \$5.00 per year, 60¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.

THE CONSTRUCTOR, NOVEMBER 1958

PRINTED BY JOHN B. DETMERS, INC., WASHINGTON, D. C.

The CONSTRUCTOR

CONTENTS

BUILDINGS • HIGHWAYS • AIRPORTS



RAILROADS • PUBLIC WORKS

GENERAL

Government Expects 7% Rise in New Construction Next Year	23
Commerce Department to Handle Construction Statistics	24
AGC Joins New Mobile Radio Advisory Group	24
Cement Firms to Hold '58 Prices in '59	25

NATIONAL ASSOCIATION

Distinguished Speakers to Address 40th AGC Convention	28
---	----

LEGISLATION

Legislative Guns Trained on Secondary Boycott Abuses	31
--	----

SPECIAL REPORT

Sabotage on Construction Jobs Demands Action <i>William G. Dooly</i>	32
---	----

LABOR RELATIONS

Appeals Court Upholds Brown-Olds Penalty	36
Marshall Urges Industry to Maintain Unity	36

APPRENTICE TRAINING

Investment in Apprenticeship Training Pays Dividends <i>F. H. Beinhauer</i>	41
--	----

HIGHWAYS • AIRPORTS

Air Force Says Flexible Paving is Feasible in Noncritical Runway Areas	42
AASHO Urged by Contractors to Support End Result Specifications for Highway Work	43

HEAVY • RAILROAD

Missile Facilities Work Advances Despite Problems	44
Utilities Propose to Build New Nuclear Plant	45
\$90 Million Nuclear Power Plant Is Constructed on the Hudson	45

BUILDING

81 of 100 Largest Building Firms Are AGC Members. Magazine Reports	46
Second Huge Radio Telescope Nears Completion	48
Work Goes on Regardless of Snow, Rain	49
NECA Won't Push New Subcontractor Bill; Others Will	49

ACCIDENT PREVENTION

AGC's Safety Booklet Reprints Available	51
---	----

MEN AND EVENTS

O'Connell Addresses Pennsylvania Builders	54
New York, Idaho Men Receive Moles Awards	55
AGC Contractors Meet With Army Engineers	56
Fagan Named Manager of Wisconsin Chapter	56
AGC of Missouri Names Manager and Assistant	61
Calendar of Events	63

ALSO IN THIS ISSUE

News of the Month	5
Trend and Outlook	7
Constructographs	9, 11, 13
Labor Notes	15
Sidelights for Contractors	17
Editorials	21
AGC Forms and Publications	64, 65
New Equipment and Materials	67
Advertisers' Products	74
Index of Advertisers	75

EXECUTIVE DEPARTMENT

LESTER C. ROGERS <i>President</i>	JAMES D. MARSHALL <i>Publisher</i>
FRANK J. ROONEY <i>Vice President</i>	WILLIAM E. DUNN <i>Associate Publisher</i>
WILLIAM MUIRHEAD <i>Secretary-Treasurer</i>	JOHN B. SWEM <i>Asst. Secretary-Treasurer</i>
JOHN C. HAYES, <i>Legal Counsel</i>	

BOARD OF DIRECTORS

LESTER C. ROGERS	JAMES D. MARSHALL
FRANK J. ROONEY	WILLIAM E. DUNN
WILLIAM MUIRHEAD	

EDITORIAL DEPARTMENT

WILLIAM G. DOOLY, <i>Editor</i>
OSBURN ZUBER, <i>Associate Editor</i>
EDWARD A. GREENE, <i>Associate Editor</i>
DONALD R. FOXVOG, <i>Associate Editor</i>
PHILLIP RAY LACKEY, <i>Associate Editor</i>



BUSINESS DEPARTMENT

MISS MARJORIE BECK, <i>Business Manager</i>
MRS. GENEVIEVE MORRIS, <i>Assistant</i>



COVER

One of the major problems in the construction of the second of two giant radio telescopes between the Sierra Nevada and the White Mountain Ranges in California was raising the 40-ton tubular steel dish to a height of 73 feet for mounting on its supporting pedestal. Two mobile 45-ton cranes were used for the job.

The Amercon Corp., AGC, of Los Angeles, was in charge of the erection of the million-dollar installation and most of the base, pedestal and dish were shop fabricated by the Allison Steel Manufacturing Co. of Phoenix, Ariz. See story on page 48.

EDITORIAL AND ADVERTISING OFFICES

1937 E Street, N. W., Washington 6, D. C. (EXecutive 3-2040)

WESTERN ADVERTISING OFFICE

L. B. HAMMOND, *Manager*
R. H. HAMMOND, *Assistant Manager*
30 North LaSalle St., Chicago 2, Ill. (Randolph 6-1843)

EASTERN ADVERTISING OFFICE

JAMES C. GREENWOOD, *Manager*
11 East 47th St., New York 17, N. Y. (PLaza 3-3373)

WEST COAST ADVERTISING OFFICE

M. D. PUGH, *Manager*
P. O. Box 633, Altadena, Calif. (SYcamore 7-2894)

The Official Publication of the Associated General Contractors of America, Inc.

Published monthly. Editorial and Executive Office, AGC Building, 1937 E St., N. W., Washington 6, D. C. Subscription price \$5.00 per year, 40¢ per copy (July \$2.00). Re-entered as second class matter June 10, 1949, at the Postoffice at Washington, D. C., under the Act of March 4, 1879. Copyright 1958 by The Constructor, Inc.