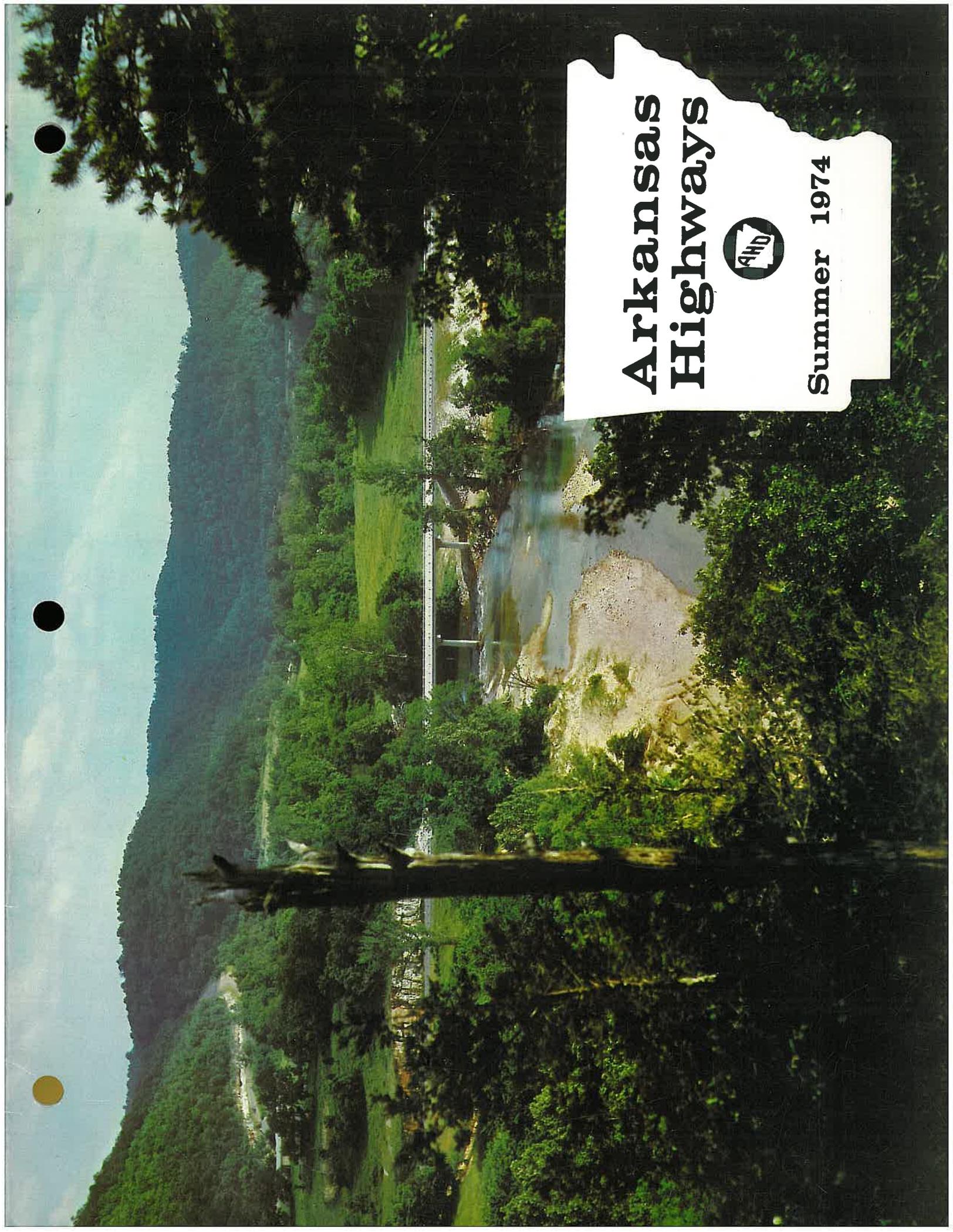


Arkansas Highways



Summer 1974



DIRECTOR'S DESK



Director Henry Gray

largest letting ever

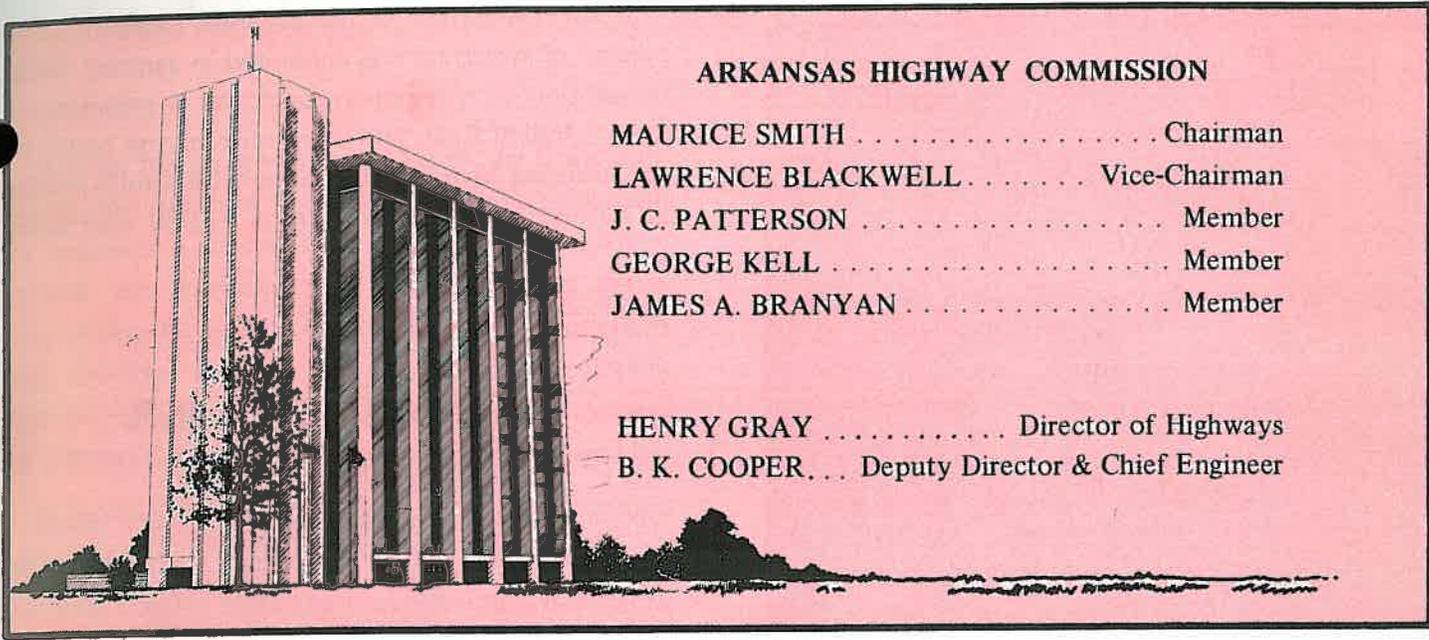
The Highway Commission awarded contracts June 27 and 28 on 41 road construction jobs that will cost more than \$28 million — the largest letting in the history of the Highway Department.

Contractors, members of the news media and other interested persons packed the Highway Department Auditorium both days to attend the letting, which was the first time contracts had been awarded on two consecutive days. The reason for the two-day letting was twofold. The extremely large volume of jobs would have made it difficult to check all bids in a single day and also contractors were given a break in that by dividing the letting into two days, each could bid on more jobs without running the risk of exceeding his maximum bonding ability.

The June letting marked the end of fiscal year 1974, during which 216 contracts were awarded by the Highway Commission that will cost more than \$136 million.

The end of the fiscal year also marked the completion of the first year of the State-Aid Rural Road program. During the year, the Highway Department

continued inside back cover



ARKANSAS HIGHWAY COMMISSION

MAURICE SMITH Chairman
 LAWRENCE BLACKWELL Vice-Chairman
 J. C. PATTERSON Member
 GEORGE KELL Member
 JAMES A. BRANYAN Member

HENRY GRAY Director of Highways
 B. K. COOPER Deputy Director & Chief Engineer

ARKANSAS HIGHWAYS

Volume 20 No. 5
 SUMMER, 1974
 July - August

STAFF

Charles Frazier
 Mary Jack Wilson
 Larry Newman
 Paul Edwards
 Planning & Research Division
 Johnnie M. Gray Louie Greene

COVER: The newly constructed Bridge on State Highway 14 crossing Sylamore Creek, with State Highway 5 in the background.

BACK COVER: U.S. 71 near Bella Vista as it parallels Little Sugar Creek on the left and overhanging limestone Cliffs on the right.

Prepared by
 Planning and Research Division
 Arkansas State Highway Department

Issued bi-monthly by and for employees of the Arkansas Highway Department, P.O. Box 2261, Little Rock, Arkansas 72203 as a medium of departmental news and other information.

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eligible for Federal-Aid Funds for highway improvement within the urban area.

There are four populated areas within the State that require the "3-C Planning Process" and which now have transportation planning studies on a continuing basis. These four studies are entitled: "Pulaski Area Transportation Study", "Bi-State Transportation Study (Fort Smith-Van Buren)", "Pine Bluff Area Transportation Study", and "Texarkana Area Transportation Study". Activities performed for each one of these studies consist of: surveillance, reappraisal, procedural development, environmental considerations, annual review, annual report, and major updates. All activities are performed by a cooperative state-local effort that is directed by a locally established policy board and citizens advisory committee.

The annual certification of the "3-C" transportation planning process is also conducted by this Section. In order for an urbanized area planning process to be certified, review and approval must be conducted on the following: continuing phase program, policy committee, approved transportation plan, executed agreements, technical adequacy, program performance, and performance in correcting deficiencies for recertification.

Another major function of the Section is to provide information toward identifying and measuring the adequacy of engineering and design features in various proposals which may be used in the Department's decision-making process. The types of projects range from minor traffic studies for use in determining the need for specific highway improvements, to comprehensive engineering feasibility studies on State Highways where a major construction, reconstruction or relocation project is being considered.

The Section also conducts studies in urban areas under 50,000 population, such as West Memphis, Hot Springs, and Fayetteville-Springdale (the so-called Northwest Arkansas), where the statutory requirement of the "3-C" planning process is not required but area growth rates justify a need for comprehensive transportation planning.

CURRENT PLANNING SECTION

This Section collects and compiles much of the basic data used by the other Sections in their various activities. It maintains a current inventory of all

physical roadway characteristics and adjacent roadside culture along the state highways, county roads, and city streets within Arkansas. Continuing statewide records of traffic flows are carried out at 79 continuous-count fixed traffic counting locations and some 4,000 portable traffic counting locations at some 750 intersections, which are worked at least once each season. Fourteen field crews constantly collect analytical data on traffic composition and characteristics, road inventory data, as well as conducting numerous special studies for particular applications in planning studies, hazardous location analyses, origin-and-destination studies, desire line determinations, traffic flow characteristics, et cetera. The collected-and-compiled data also provide information for the highway log, job records, road inventory, traffic volumes maps, traffic trends, and other periodic intermittent reports of the Department.

Personnel of the Criminal Justice and Highway Safety Information Center, Department of Finance and Administration, are responsible for furnishing this Section with computerized data on each motor vehicle traffic accident report received by the State Police Department. The data from these reports are analyzed, summarized and diagrammed for use by the Department's Traffic Division in determining and eliminating high hazard situations on the State Highway System, carrying out safety reviews of proposed highway improvements, and numerous other safety related activities.

The Current Planning Section projects traffic volumes, characteristics, composition, and desire lines, usually for the next two decades, to be used by Roadway and Bridge Design teams in designing highway improvements to the State Highway System. Economics, Advance Planning and Transit Planning Sections and the Special Studies group also make wide use of these projections in anticipating potential fiscal resources, conducting special transportation studies, and evaluating economic impact of highway improvements.

The newest function in Planning and Research Division is assigned to the Special Studies Unit set up in the Current Planning Section in June 1974. This group, under the direction of Steve Teague, is charged with the responsibility for coordinating many of the special projects required of the Department

by State and Federal Legislation. In addition, it will conduct initial planning studies for urban area bypass routes, highway relocation projects, freeway interchange justifications, and other specific projects requested by Highway Commissioners, District Engineers, Legislators, City and County Officials, or citizen groups. The team will direct its efforts initially toward the accomplishment of two important objectives of the Federal-Aid Highway Act of 1973: (1) realignment of the State's Federal-Aid Highway System, and (2) development of Certification of Acceptance procedures. Other projects for the Special Studies Unit include recommendations for expansion of the Federal-Aid Urban System in all cities over 5,000 population; completion of the Northeast Arkansas Arterial Highway Study involving corridor location for Highway 67 from Bald Knob to the Missouri Line; preliminary groundwork for updating the 1970-1990 National Functional Classification and Needs Study; and several individual studies aimed at specific highway improvement projects.

ECONOMICS SECTION

Highway economics are basic to civic health and essential to the proper planning and national administration of public highway, road, and street programs. The enormous reservoir of economic and fiscal data available in this Section provides the source material upon which to base the outstanding fiscal and economic studies carried on in this Division, studies which have won national recognition for their quality and innovative character. These studies provide State Highway management with the tools for realizing optimum efficiency and economy in the utilization of public revenues for motor vehicular transportation facilities.

In addition, monthly and annual reports are compiled in the Economics Section for highway planning and also for use by other State agencies and the Federal Highway Administration. These reports include analyses of motor vehicle registration, motor fuels gallonage, and motor-user imposts revenue receipt and distribution. These are of great importance to the Legislature also, as well as to economists, fiscal analysts, and others working for commercial, industrial, and social progress in the State.

The Economics Section is responsible for working

in cooperation with local planning agencies in conducting the socio-economic portion of the various urban transportation studies. The Section has a broad overall responsibility for review of statistical data in other studies conducted by the Highway Department.

MAPPING SECTION

The four-color tourist map of which approximately 500,000 copies are distributed each year is produced in this Section. Traffic maps, county maps, city maps, and freeway strip maps are some of the standard maps provided. The scribing technique is fully incorporated in the mapping (cartography) process to obtain maximum output. Other maps are prepared for special uses upon request.

The work responsibility of this Section is divided among three units with a supervisor for each:

(1) General and Municipal Mapping covers the County General Highway Map series (75 counties) and city maps of all municipal corporations (nearly 450); and,

(2) Special Mapping covers all miscellaneous and State Maps, including the four-color Tourist Map; while the

(3) Art and Publications Unit handles final preparation of layouts, artwork, illustrations, typesetting, charts, graphs, maps, et cetera, for all reports and publications of the Division and the major portion of those issued by the Department.

RESEARCH SECTION

The Research Section performs many tasks in fulfilling its responsibilities for the Department's quarter million dollar annual research program. The Section Head serves as the Secretary of the Highway Research Committee, an interagency group with its membership drawn from the Department; the University's Colleges of Engineering, Agriculture, and Business; Arkansas State University; and the Federal Highway Administration (ex officio); which shapes research plans and policies in the field of highways, roads, and streets. Administrative responsibilities involve the duties required by the Highway Research Committee; checking, evaluating and distributing research proposals for new projects; and assuring that all Federal and Departmental requirements are met by each researcher and contractor. Continuous mon-

itoring of expenditures, preparation of budget schedules for each project, and a strict review and check of progress payment and final payment vouchers by contractors are also necessary functions of the administrative process. The Section strives for a careful coordination among researchers and Department personnel, especially when cooperative work is required. Periodic checks on the progress of all projects are made to assure that the intent and objectives of the studies are being met.

Research projects as well as special studies and literature searches are conducted by the Research Section personnel. These may be in response to a specific request for information or for the purpose of providing general information on a particular subject, or to expand the informational reservoir of the Section as time permits.

As the Departmental clearinghouse the Section receives, reviews and disseminates information on research done by other states, the Transportation Research Board, the Federal Highway Administration, and other appropriate agencies. It is also directly involved in recommending and implementing the findings of any research which seems applicable and beneficial in the improvement, maintenance management and/or operation of the Arkansas State Highway System or other public highways, roads, and streets in the State. Currently, major areas of interest in research are: utilization of containerization in freight transport, utilization of non-urban waste products, production of orientation movies for skills training, and continuing improvement in traffic safety techniques.

TRANSIT PLANNING SECTION

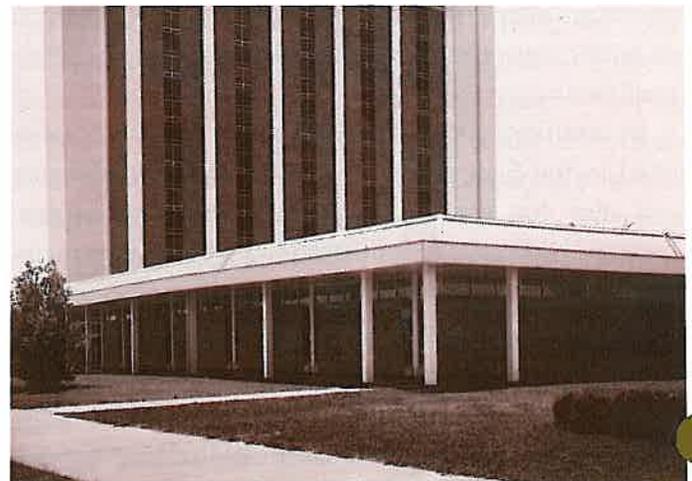
The Transit Planning Section is a new element of the Planning and Research Division having primary responsibility for assuring the Department's involvement in the total transportation planning for the State required under the Executive Order of 28 April 1971, charging the State Highway Commission with the review, correlation and coordination of all public transportation planning for the State. The coordination and conduct of present and future National Transportation Studies and Departmental liaison with the Urban Mass Transit Administration (UMTA) are also the responsibility of this Section.

It will work with this Federal Agency on urban transit projects in the urban areas of Arkansas.

Specific projects presently underway or assigned include Arkansas' share in the "Multi-Modal Transportation Corridor Study, Brunswick, Georgia/Kansas City, Missouri"; "A Corridor Feasibility Study, Kansas City/Baton Rouge"; "A Justification Study on the Need for Bus Facilities on I-630"; development of a comprehensive reference library on modal, intermodal and multi-modal transportation planning; investigation of the planning of intermodal transfer facilities, securing a "demonstration highway public transportation project in a rural area" for Arkansas under Section 143 of the 1973 Federal-Aid Highway Act; studying and supporting the utilization of containerization in freight transport; Arkansas River Corridor Transport Development; and liaison with AMTRAK.

This Section is collaterally involved with a research project also, "Effects of A Channel Relocation Project on the Ecosystem of Little Sugar Creek, Benton County, Arkansas" since the principal investigator of the project is a member of the Transit Planning Section. The responsibility for coordinating all requests from other Divisions of the Department for environmental data and for development of environmental profiles is assigned to this Section along with the preparation of the air quality reports needed for "3-C" certification in urbanized areas.

The P&R Division consists of approximately 100 full time employees and utilizes an additional 15 summer employees to accomplish specialty work. It is located in the building behind and to the right of the Central Office Building in Little Rock!



Planning and Research Division with Central Office Headquarters in background.

magazine relocated

Production of the "Arkansas Highways" magazine has been assigned to the Planning and Research staff. Employees of the Art Unit of this Division for many years have had the responsibility of preparing the artwork, layout, and production of the various Highway Department publications. The addition of the magazine presents another definite challenge to maintain the excellent work and quality which "Arkansas Highways" has had in the past. The Unit will maintain a close working relationship with Information Services.

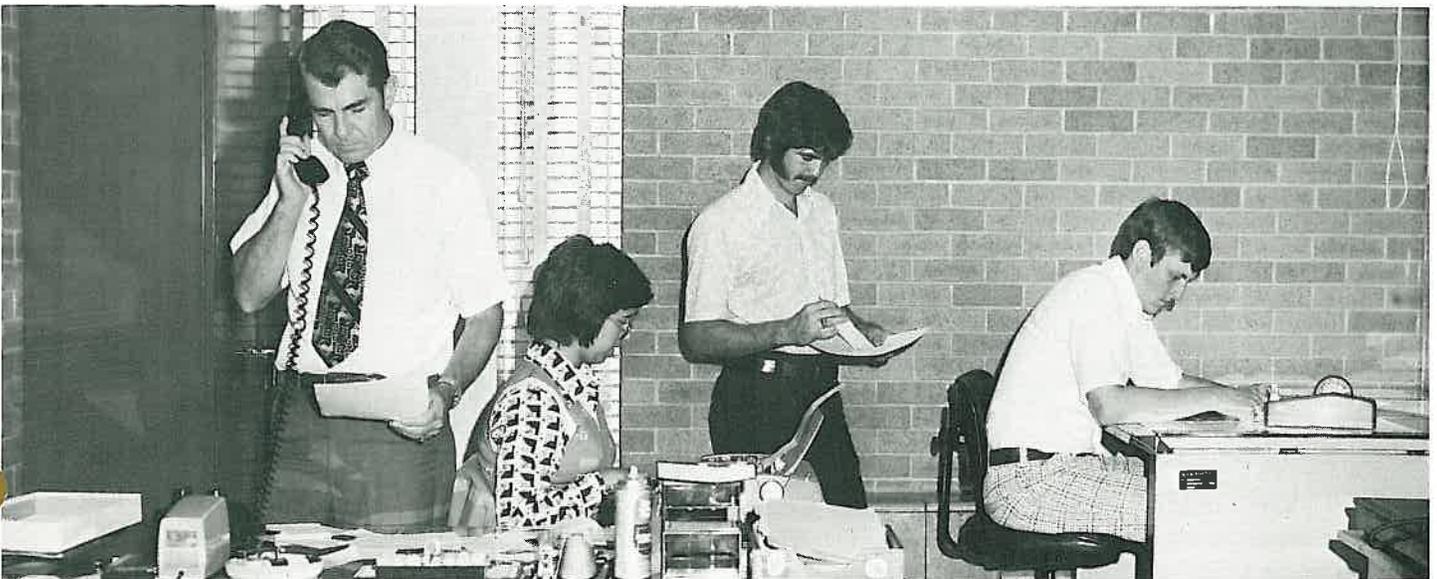
The Art Unit of the Mapping Section is staffed with two artists, Larry Newman and Mary Jack Wilson, and a cartographer, Paul Edwards. Photography will continue to be furnished by J. Louie Greene and Johnnie Gray.

For any endeavor to be successful, full cooperation is required. Your continued reporting of news and input into the magazine is encouraged. All questions, correspondence and articles for the magazine should be directed to Charles Frazier. The phone number is 569-2205.

This is your "Arkansas Highways" magazine.



STAFF Below: (left to right) Charles Frazier, Mary Jack Wilson, Larry Newman and Paul Edwards.



indian site unearthed

by Clell Bond

By next spring the historic, scenic and frequently inoperable free ferry which crosses the White River between Allsion and Sylamore on Highway 9 will be replaced by a modern steel and concrete bridge. Prior to the beginning of construction this June, the Highway Department fielded an archeological crew to salvage a portion of a well known Indian site which will be partially destroyed by the bridge approach on the west bank of the river.

A five member crew especially hired for the excavations was headed by archeologist Clell Bond of the Environmental Development Section. With a considerable amount of logistic help and support from the Batesville District Office and the Mountain View Maintenance Station, the archeology team was able to scientifically excavate the site for four weeks while the subcontractor began the preliminary grading operations for the approach on the east bank. All excavation was conducted with shovels and small masons trowels and all excavated dirt was sifted



Ed Baxter inspects grave while Clell Bond (AHD employee) looks on.



AHD workers at diggings.

through $\frac{1}{4}$ inch hardware cloth.

Although a detailed analysis of all the data which was uncovered may take several months, a preliminary review of the uncovered artifacts indicates that several scientifically important findings were made, even though a building constructed in historic times had damaged the site. In all nearly 8,000 various types of Indian artifacts were recovered, including approximately 100 arrow and spear points, 300-400 pieces of Indian pottery (sherds), 3 skeletons and a portion of an Indian house. These artifacts indicate that the site had been periodically occupied by various groups of Indians for several thousands of years. The earliest occupation possibly occurring approximately 2,000 B.C., while the latest major occupation probably occurred near the same time De Soto's expedition entered Arkansas or around 1,500 - 1,600 A.D. The burials which were unearthed appear to belong in what is termed the Woodland Stage, the individuals probably having died over 1,500 years ago.



Donna Baxter and Skipper Selvey.

scuba gear used

by Doug Nielsen

In identifying the environmental impacts of the widening of U.S. 71 at Bella Vista, it became apparent that there was not sufficient room for the roadway between the existing scenic bluffs on one side and Little Sugar Creek on the other.

The limestone bluffs are considered to be of both archeological and aesthetic significance. Aboriginal natives used the overhanging bluffs for shelter and as semi-permanent residences. Artifacts from this occupation have been found beneath the bluffs and studied by the Arkansas Archeological Survey.

In conjunction with the U.S. Department of the Interior, Arkansas Game and Fish Commission and residents of Bella Vista, it was decided that Little Sugar Creek could be relocated in such a manner that the impact to its ecosystem would be minimized and that this would be more desirable than trying to relocate the limestone bluffs. Cooperatively, guidelines were formulated which would attempt to replicate the sections of Little Sugar Creek to be relocated.

As a result, the Arkansas State Highway Department, in conjunction with the Water Resources Research Center and the Departments of Botany and Bacteriology, Civil Engineering and Zoology at the University of Arkansas in Fayetteville, will study the Creek's ecosystem before relocation in order that necessary habitat be replaced, and study the effects of the channel relocation project on the ecosystem of Little Sugar Creek to evaluate the success of the replication project.

This study will provide information for future highway projects where stream channel alteration may be a consideration. It will provide valuable data for analysis of the environmental impact of this type of highway project.

An ecosystem study, such as this, involved studying all of the factors which make up the environment and the complex relationships of these factors. All food chain levels are monitored and correlated to various chemical and physical phenomenon.

The Bridge Surveys crew has a wet time surveying the topography of the Creek in order that plans and specifications for the relocation project could be com-



Planning & Research Survey Crew: Otto Potter (standing) and Steve Wilson of Environmental Development.

pleted and habitats could be properly identified in relation to the Creek's physical characteristics.

Bob Tyler, ecologist in the Planning and Research Division, is the principal investigator on the project and is in charge of the Highway Department's portion of the study. He and Steve Wilson, staff ecologist in Environmental Development, made first hand underwater observations of the Creek's various habitats by using Scuba gear. Otto Potter, an engineer in the Research Section, directed the surveying of some of the special environmental characteristics that were identified during the diving operation.

The project will continue after construction so that adequate information can be obtained for proper evaluation of the relocation effort.



Scuba Divers: Bob Tyler and Steve Wilson, submerging.

highway department visited

by John Kizer

Through a co-operative effort of the Agency for International Development, the Federal Highway Administration, and the Arkansas Highway Department, two engineers from the Kingdom of Thailand visited the Highway Department for two weeks during the month of June. Pongsak Techathuwanan and Prakob Saringcarinkoon received their Bachelor of Science of Civil Engineering Degrees at Chulalongkorn University in Thailand and entered the U.S. Study Program which allows the participant to further his education at an institute of higher learning in the United States. Both Pongsak and Prakob have just received a master's degree in Civil Engineering at the University of Texas at Austin.

Thailand is developing an Accelerated Rural Development (ARD) program and the primary purpose for this training of Pongsak and Prakob is to assist in filling a gap in the skilled manpower capabilities through appropriate overseas training to upgrade

certain Thai nationals. Such training, although specifically intended to satisfy a need of the ARD project objectives, will also supplement the skilled ability and the professional engineering reservoir of the country as a whole. ARD has the requirement for providing engineering services which includes: investigate, survey, design, and construct about fifteen hundred kilometers of farm access and service roads per year. The area covers twenty-five changwats (similar to Arkansas Highway Department Districts) located in the North, Northwest and South part of Thailand, the land area making up roughly half of the area of the country which is approximately four times the size of Arkansas.

The similarity between Thailand's 5000 kilometers (8,000 miles) of farm access service roads and of those maintained in the county systems in Arkansas prompted the training assignment of Pongsak and Prakob

continued on page 20.



From left, Sheron Morgan, Pulaski County Road Foreman, B. Frank Mackey, Pulaski County Judge; Pongsak Techathuwanan, Engineer from Thailand; John Kizer, State Aid Engineer; Prakob Saringcarinkoon, Engineer from Thailand.

mobile field office

The Arkansas Highway Department employed the use of a mobile field office during the week of June 17-22 to gather information for the preparation of the environmental impact statement on the proposed East Belt Freeway project in Little Rock and North Little Rock. The mobile information center was moved to several different locations in the area during the week and operated from 8 a.m. to 8 p.m.

This was the first time that the "mobile office" concept had been used by the Highway Department and it was very successful. Approximately 300 persons visited the trailer to discuss the East Belt project with AHD personnel. The center provided an informal atmosphere in which the people could express their views freely.

Director Henry Gray said Department personnel were very enthused about the temporary center. Such a center could be very useful prior to official public hearings or community involvement meetings to give citizens a chance to become familiar with proposals before the formal meetings. This would aid them in understanding the proposal and the Department



Marion Butler of Environmental Development (right) explaining the East Belt Freeway.

would benefit by receiving a more informed input, rather than input based on rumor or emotionalism.

Community input is essential in helping the Highway Department objectively identify and discuss probable impacts on an area as the result of a new highway. The "mobile office" concept provides residents of the area with a great opportunity to discuss potential problems with Highway personnel and also to become involved in the highway planning process.

highway lighting conference held

by Bob Faulkner

On June 11, the Federal Highway Administration in cooperation with the Arkansas Highway Department conducted a one-day seminar on the basic principles and techniques of roadway lighting. The course included discussions on new trends in lighting, light sources, photometrics, and high mast lighting. The session was concluded with a workshop on the application of high mast lighting at interchange areas.

Shelly Ragland and Charles W. Craig of the Street and Highway Lighting Branch of the Office of Traffic Operations, FHWA in Washington, D.C. were the primary instructors for the course. James F. Johnston, Product Manager for ITT American Electric of Southaven, Miss. was the guest speaker.

Approximately 40 persons from local utility companies, municipalities, the FHWA and the Highway Department attended the meeting. The consensus of

the group believed that the course promoted a better understanding of the problems involved in providing roadway illumination and that coordination of this work would be improved between the various agencies.



From left to right: James F. Johnston, J. S. Ragland, Charles W. Craig and Bob Faulkner.

awards

JUNE and JULY

20 YEARS

Garland J. Daniel, District 8
Wilson W. Grace, District 8
Katherine A. Jones, Surveys
Charles E. Sherley, District 5
Earshel Singleton, District 3
James D. Earnhart, M&T
Joe C. Hays, District 2
Troy Smith, District 10

15 YEARS

Elbert D. Benson District 7
James W. Davis, District 1
Joseph A. Gay, District 1
James T. Richardson, District 9
Charles A. Scott, ROW
James W. Smith, District 9
Richard E. Waller, District 2
Geter G. Williams, Weights & Standards
Cecil E. Butts, District 10
Woodrow W. Crabtree, District 6
Charles E. Franks, District 10
Elisha C. Kitchens, District 7
William W. Terry, District 6

10 YEARS

Charles A. Barnard, Weights & Standards
John V. Belt, District 4
R. G. Burge, District 5
Billy R. Durham, Jr., Secondary Roads
Jimmy D. Eledge, District 8
Will A. Gill, District 1
James E. Goggans, District 2
Howard L. Gregory, P&R
Billy W. Hale, District 8
John R. Haney, District 5
James O. Hawley, District 5
Frank W. Oliver, District 5
Jesse H. Permenter, District 10
Willis M. Rippy, District 10
Woodrow W. Taylor, District 1
Clarence W. Ward, District 4
Louis Zelonis, District 3
James H. Cooper, District 10
Lester N. Garrison, District 7
Elmer Gilbreath, District 5
Franklyn D. Graham, District 1
John L. Haggard, Equipment
Harry F. Humphries, District 2
Clyde F. Pogue, District 5
Frank G. Rose, District 9
Mildred M. Russ, District 7

5 YEARS

Jerry S. Bethea, District 7
Billy E. Bryant, District 7
Hayden G. Dillinger, District 9
Julious N. Donaldson, District 2
Andrew Griffin, District 2
Linda C. Hartsfield, District 3
Jerry L. Stussy, Computer
William M. Wall, M&T
Lawrence J. White, District 6
Ronald P. Jones, District 8
Olwin W. Allison, District 8
Carl G. Anderson, District 5
James D. Blevins, Weights & Standards
James C. Bramlett, District 7

Guy Branscum, District 5
Lester W. Bristow, District 5
James R. Cofer, Const. -Final Estimates
John R. Ellis, Weights & Standards
Robert L. Evans, District 8
L. D. Finister, Bridge Design
Gary E. French, Computer Services
Donald E. Galloway, ROW
Jimmy R. Getson, District 10
Alfred J. Harms, District 8
Thurman Magness, District 6
Archie H. McBride, District 5
Neal McCandlis, District 5
Sam C. McFadden, District 1
Ervin O. Nelms, Traffic
Herman D. Pierce, Weights & Standards
Preston H. Purkiss, Permits
Richard G. Sims, Jr., Computer Services
Billy A. Skeets, Weights & Standards
Hershel R. Smith, District 5
Joe T. Smith, District 5
Marvin E. Steward, District 5
Willis G. Thomason, District 7
Kenneth L. Trotter, District 4

Thomas D. Trotter, District 4
Gary D. West, District 5
Harry W. Willcockson, District 10

retirements

JUNE

Maurice Sale, District 10
Hazel E. McKim, Building & Grounds
Fritz Lokey, District 6
Donald C. Lemmons, District 10
John V. Belt, District 4
William L. White, District 10
Guy Wilson, District 7
Jess T. Hensley, Henderson Ferry
Thomas J. Cotton, Weights & Standards
Roy L. Keathley, Equipment
Robert L. Moses, District 5
Carl M. Homes, District 5
Lloyd D. Greene, District 8

AWARDS FOR PHOTOS



J. W. White of Fort Worth, Texas, Regional Administrator for the Federal Highway Administration (Right); and C. F. McMillen of Little Rock, FHWA Division Engineer (Left); present two awards to Highway Director Henry Gray for photographs that were winners in the Sixth Annual Department of Transportation Awards Competition – The Highway and its Environment. The winning photos, which were shown in the December issue of "Arkansas Highways" were of the White River on Highway 341 in Baxter County and a section of Highway 10 in western Little Rock.

graduates



Waller



Loe



Loe



Griffis



Edens



Utnage



Godfrey



Godfrey



Smith



Riley



Ross



Grimes

Brenda Lue Waller
Junction City High

Honor graduate as one of the top 'A' students. Daughter of John D. Waller, W. V. Bradshaw Residency.

Vickie Loe
Fairview High - Camden

Officer & active in the Senior marching band. Daughter of Ben Loe, District Shop, D-7.

Larry Loe
Fairview High - Camden

Member of Who's Who 1973-74, National Beta Club, Band Quartermaster "All Region". Son of Arvis Loe, District Shops, Dist. 7

Travis Earl Griffis
Bearden High

Son of George Griffis, Hwy. Spec. Maint. Supervisor at Camden.

Yvonna Kay Edens

State College of Arkansas - Conway

Associate Degree of Arts for Nursing. Daughter of Dale Edens, Garfield Headquarters, Dist. 9.

Karla Jo Utnage
Clarksville High

History Club, FHA, President. Daughter of J. L. Utnage, District 8.

Michael J. Godfrey
Harrison High

National Honor Society, Spanish Club, Varsity Band. Son of James R. Godfrey, Drag-Line Operator, District 9.

Ronald G. & Ruby Godfrey
University of Arkansas

Bachelor of Science - Business Administration with Teaching Certificate. Son and daughter-in-law of Resident Engineer Gary Godfrey.

Sammy L. Smith

Oklahoma State University

Degree in Architectural Engineering. Son of Eddie L. Smith, Dist. 1.

Walter Riley
Forrest City High

Member Stage Band Club, Science Club, Son of Jasper Riley, Dist. 1.

Ann Ross
Brinkley High

Member FHA, VICA Club, Library Club. Daughter of H. M. Ross, Area Foreman, Monore City, Dist. 1.

Debbie Grimes
Pine Bluff High

Senior Beauty, Zebra Annual Staff, Natl. Honor Society, Spanish Club, Social Club, Home Room Secretary, MBYF President and Girl's Auxiliary Secretary. Daughter of Ouida Grimes, Dist. 2.

graduates



Stephens



Bean



Hutchison



Drewry



Montgomery



Mahan



Cagle



Mauk



Mitchell



Ward



Lowe



Wright



Parmell



McCoy

Carol Stephens

Central – Little Rock

Member FBLA, FHA, Band. Daughter of Alma Stephens of Reproduction.

Billy Mac Montgomery

Osceola High

Football, Drama Club, French Club. Son of Billy J. Montgomery, Dist. 10.

Anita Kay (Adams) Ward

Hope High

Daughter of C.O. Adams. District 3.

Robin Ray Bean

Batesville High

Member Tri-M Club, Band-7 medals state competition, Outstanding Band member Chosen to play with All Navy Band in Florida - Walt Disney World Grand Opening. Son of Robert L. Bean, Dist. 5.

Lee Mahan

Paragould High

Bulldog beauty, Homecoming Queen, FTA Spanish Club, Student Council. Daughter of Nancy P. Mahan, Dist. 10.

Amy Clare Lowe

Hall High – Little Rock

Cum Laude Graduate, National Honor Society, Beta Club, Kachinas, Mu Alpha Theta. Daughter of J. Cameron Lowe, Roadway Design.

Yvonne Lynne Hutchison

Rector High

Honor Society, Library Club, Honor Roll. Daughter of Delmer James Hutchison, Dist. 10.

Sandy Cagle

McClellan High – Little Rock

Member Beta Club, COE, FBLA, Who's Who. Daughter of Gene Cagle.

Tom Wright

Searcy High

Member FFA. Son of Leo Wright, Dist. 5.

Dennis Mauk

Arkansas High- Texarkana

Member ROTC. Son of Charles Mauk, Resident Engineer - Texarkana.

Earl Davis Parmell

Osceola High

Son of Aaron J. Parmell, District 10.

Gerald D. Drewry

Harrison High

Member of DECA, Future Teachers of America, Science Club. Son of Jack Drewry, Equip. Oper., Dist. 9.

Becky Mitchell

Nashville High

Member FHA, Pre-pro Club. Daughter of Oscar C. Mitchell, D-3.

Michael McCoy

Russellville High

Member Fellowship of Christian Athletes, Football team. Son of Frank Blaylock, Sign Shop.

graduates



Clayton



Guinn



Jefferson



Hopper



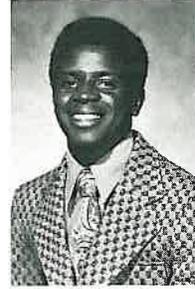
Rowland



Cloud



Huffine



Richardson



Hilliard



Pitcher



Pitcher



Surginer



Rowland



Jackson



Childress



Broyles

Bill Clayton
Wynne High

Son of B. G. Clayton, Dist. 1.

Stephen T. Guinn
Morrilton High

Member Football team. Son of Harold T. Guinn, Sign Shop.

Barbara Jefferson
Osceola High

Daughter of Hollen Jefferson, Dist. 10.

DeWayne Scott Hopper
Paragould High

Son of Charles Hopper, Dist. 10.

Steven D. Rowland
McClellan High – Little Rock

Member VICA. Son of Doyle Rowland, R of W.

Connie Gail Cloud
Bryant High – Benton

Daughter of Polly Cloud, P&R.

Aven Dan Huffine
Paragould High

Awards for physical fitness. Member in 100 mile Club. Son of A. D. Huffine, D-10.

Larry Richardson
McGehee High

Lettered in track & basketball. Son of Daniel Richardson, Dist. 2.

Charles Terry Hilliard
Lakeside High – Lake Villiage

Member of FFA. Son of Veral Hilliard, Dist. 2.

Tommy Ray Pitcher
Oak Grove – Paragould

All-Region-Basketball, FFA. Rex, Hall, father-in-law, Dist. 10.

Karen Hall Pitcher
Oak Grove – Paragould

Band, FHA, Beta Club, FBLA, Science Club. Daughter of Rex Hall, Dist. 10.

Bette Clair Surginer
Forrest City High

Officer DECA Club. Daughter of Ed Surginer, Dist. 1.

Melissa A. Rowland
McClellan High – Little Rock
Member Media, FHA. Daughter of Doyle Rowland, R of W.

John Floyd Jackson
Benton High

Tennis Team. Son of Glendol Jackson, R of W.

Ann Childress
Northeast – No. Little Rock
Member Concert Choir. Daughter of Shirley Childress, R of W.

Cindy Broyles
McClellan High – Little Rock
Member Art Club, Library Club, Music Club, Highlander Choir. Daughter of Paul Broyles, R of W.

graduates



Beck



Coffman



Stafford



Harrison



Routh



Bratton



Hesselbein



Plunkett



Smith



Reeves



Birmingham



Johnson

Ken Beck

Harding College – Searcy

Member of Kappa Sigma Kappa Social Club, Alphi Phi Gamma, Football & track letterman, Intramural Athlete of Year 1974. Son of Alton A. Beck, P&R.

Sandra Ann Coffman

Batesville High

Member of FTA, FHA, FBLA, Pep Club and Voices of The Pioneers, Cheerleader, Campus Queen, listed Who's Who among American High School Students. Daughter of Marilyn Coffman, Dist. 5.

Karen G. Stafford

Paragould High

Class Officer VP, Cheerleader, Library Club officer & district officer, Honor Society, FTA, Secretary Student Body. Sister of D. C. Stafford, Res. Engineer.

Jenni Lynn Harrison

Parkview – Little Rock

One of 4 Ark. Natl. Council of Teachers of English & Writing Awards, National Merit Scholar, 4 pt. grade average, Pres. Spanish Club, co-editor yearbook, Beta Club, Member Honor Society, Mu Alpha Theta. Won AHSPA journalism scholarship, UALR Achievement scholarship. Daughter of Frank Harrison, Asst. Bridge Engineer.

Ronald Lee Routh

Mills High – Little Rock

Member FBLA, Key Club, Beta Club, Audio Visual, Library Club, represented FBLA in District and State contests. Son of Florence Routh, P&R.

Debra Kay Bratton

Sheridan High

President Student Council, Pres. Quill & Scroll Society, Editor Yearbook, Jr. & Sr. Cheerleader, Pres. FHA, Sec. FTA, Beta Club, Treasurer Senior Class, Charity Queen. Daughter of Van Bratton, Jr. Res. Engr., Dist. 2.

Scott Hesselbein

Paragould High

Basketball, DECA, FCA, Football, All District, 1974. Key Club, Tennis. All District Doubles, State Semi-finalist in singles, Track, Football Capt. 1974. Son of Charles H. Hesselbein, Dist. 10.

Brenda Ann Plunkett

Tillar High

Received a Salutatorian Award, Newspaper & Annual editor Award, Book-keeping Silver Award. Scholarship from SouthWest Technical Institute at Camden. Daughter of Jack Plunkett, Dist. 2.

Leslie Frances Smith

Paragould High

Honor Society, Spanish Club, FTA, Bulldog Beauty, Who's Who Among American High School Students, Commended for National Merit Scholar, Editor of Echo, Citizenship Award. Daughter of Sam Smith, District Engineer, Dist. 10.

Judy Kay Reeves

Oak Grove – Paragould

Honor Student, Treas. of Sr. Class, Beta Club, FHA, Drama Club, Student Council, Homecoming 4 yrs., Jr. & Sr. Outstanding Teenager of America Award, Merits. Who's Who Award. Daughter of Jessie Reeves, Dist. 10.

Don Birmingham

North Texas State University

Doctor of Philosophy Degree in Counseling and Psychology. Doctoral Club. Son of E. M. Birmingham, Dist. 5.

Tabbie Johnson

Paragould High

Member FHA, FTA, VP Student Council Delegate to Girls State, Pep Squad, Jr. & Sr. Play, Delegate to Northeast Jr. Miss Pageant, President of Explorer Post 106, Daughter of Mrs. Fern Johnson, Dist. 10.



Meachum



Phillips



Keeter

James Owen Meachum

Cross County High – Cherry Valley

All District Football, Chosen as Outstanding lineman, 2 year Letterman, Art Club, FBLA, Library Club. Son of B. E. Meachum, Dist. 1.

Kevin Phillips

Corning High

Honor Graduate, Salutatorian, Pres. Natl. Honor Society, Student Council, Society of Outstanding Students, Band. Son of D. R. Phillips, Dist. 10.

Gary Dale Keeter

Harrison High

Son of Gary Keeter, Equip. Opr. Dist. 9.

(photo not available)

Billy Jack McAlister

Arkansas Tech - Russellville

BS in Engineering, Blue Key, Scabbard & Blade, Pershing Rifles, Alpha Chi, Who's Who in American Universities & Colleges, Society of American Engineer's Award. Son of Bill McAlister, District 8.

Karen McAlister

Capitol City Business College

Vice President Student Council. Daughter of Bill McAlister, District 8.

Cathy Gipson

Atkins High

Daughter of J.C. Gipson, District 8.

David Clyde Davidson

Russellville High

Fellowship of Christian Athletes, FTA. Son of C.E. Davidson, District 8.

Billy Dewayne Turpin

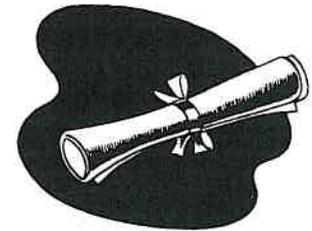
Oden High

Member FFA, Outstanding student in Agriculture, Farm mechanics team, pres. Son of Bill Turpin, District 8.

David E. Mink

Dover High

Vice President of Class. Son of W. J. Mink, District 8.



BOYS STATE VISITS AHD



Seven members of the American Legion Boys State visited the Highway Building on June 7. Bridge Design Engineer Veral Pinkerton (3rd from right) is shown here explaining a set of bridge plans to the visitors. Jim McCall of Public Relations

(2nd from right) and Assistant Chief Engineer Jim Lowder (right) conducted a tour of the Central Office Building, P&R and M&T and explained the function and operation of the various Divisions of the Highway Department.

around the department

BRIDGE DESIGN

by Bonnie Wesson

Frank Harrison, Assistant Bridge Engineer, his wife Barbara, and daughter Laura accompanied eldest daughter Jenny to Washington to receive the Presidential Scholars Award. Only 121 students were selected nationwide. The awards were presented by Julie Nixon Eisenhower. After refreshments, the group was taken on a tour of the White House. A banquet was also given in their honor at the Mayflower Hotel. Congratulations, Jenny. This is an honor the whole family can share.

COMPUTER SERVICES

by the staff

Our congratulations to Art Johnson on his election to the post of Lieutenant Governor of the Western Division of Toastmasters International. It looks like a lot of travelling in store for him in connection with this - Louisville, Kentucky for 3 days in June; Memphis two weeks later; and more plans in the offing.

Each of Vershall Roy's three college students made the Dean's List for the Spring Term in their respective schools. Congratulations!

RIGHT OF WAY

Engineering - Pat Babbitt

Wedding bells will soon be ringing for Marilyn Ford. Larry Burton is the lucky man and the date is set for July 6. Marilyn and Larry are moving their wedding gifts into their new trailer. We all wish them the best of luck.

Our Section gave a surprise party for Fred Williams. Fred has been with the AHD for 15 years. Mr. Martin presented Fred his certificate and pin. Everyone in the Division and several other Sections were invited. Fred's wife, Nina, joined in the celebration. We all enjoyed the cake and punch. Congratulations!

EQUIPMENT

by the staff



Mrs. Keathley watching as Roy Keathley receives certificate from Mr. Head.

Roy Keathley, who was in charge of the Motor Pool retired in June after 12½ years of service. Mrs. Keathley came out to enjoy the retirement party that was given for him on June 8 by the Equipment Section. Mr. Keathley will be truly missed by all those who worked with him and with whom he came in contact. We all wish him a long and happy retirement.

FINAL ESTIMATES

by the staff

C. L. "Dunc" Duncan began his highway career in 1954 as Inspector in the Construction Division. He served on numerous construction projects in D-6 until his transfer to the Final Estimate Section in March of 1972.

On June 10, fellow employees in the section furnished a cake and celebrated Dunc's 20th anniversary of his employment. Raymond Jones, Chief of Final Estimates presented his pin and certificate.



C. L. Duncan (left) receives certificate from Raymond Jones.

DISTRICT 4

by Ethel Crockett

Pictured at a retirement recognition party at Paris (Logan Co.) for recent retirees are (from the left) B. P. Butler, Bud Hodnett, Dist. Maint. Supt., Ralph Davidson, Larkin Adair, D. W. Mainer, H. H. Friar, O. V. Johnson and Curtis Wingfield. Those recently retiring from this crew are Larkin Adair and D. W. Mainer.



DISTRICT 5

by Paula Terrell

This spring and summer have been very exciting ones, full of good news and lots of changes. We have two new area foremen. First of all Virgil E. Stephens has moved from Jackson County to be foreman of Cleburne County. B. G. Hubbard has now taken his place as area foreman in Jackson County at Newport. We wish them both the very best in adjusting to their new responsibilities.

We sure hope Roy Goatcher is enjoying his recently acquired retirement. He was honored in May with homemade cakes and coffee as all office and shop employees gathered to wish him the best of luck. Roy was working in the parts department with over ten years of service. Also retiring is J. D. Martin who worked in Izard County for over fifteen years. R. L. Carter retired in July with over twenty years of service to the Cleburne County crew. We hope all of these enjoy their retirement, for that is one thing most everyone dreams of.

We would like to extend our deepest sympathy to the family of John C.

Thompson on his passing away May 31. He retired from the Highway Department in 1964 at age 67 as a heavy truck driver.

Well, as usual it rained on Saturday June 8. That was the day set aside for a fish fry in which the Independence County crew, job superintendents, shop and office employees and their families were invited. The event was supposed to be held in the park located at Lock and Dam No. 1 on White River, however, because of the wet weather, it was moved inside the district shop. About 130 people gathered to enjoy the catfish, french fries, salads and homemade desserts. The fellowship was shared by everyone attending. This is something we would like to do more often.



Drexel Evans, top and Troy Cook, below receive twenty year service certificates.



DISTRICT 7

by Althea Campbell

Arlene Davis, stockroom supervisor, retired the last of May with 15½ years of service to the Department. We will all miss Arlene. She will take a 3 week vacation to California, Oregon and points West; by way of Winnebago - the way to "see it all". Good luck!

John Livingston, maintenance superintendent, took his son, John, Jr. fishing. This is a "for true" catch.



Arlene Davis



This is a "for true" catch.

Mickey Reese's Residency

by Elaine McKinnon

We have a new Assistant Resident Engineer, Mike Thompson. Mike was transferred to our office from Magnolia Construction. We are glad to have Mike & Margaret as members of our "little" family.

Fred Belin, time keeper for Maintenance, is a 4th Degree Green Belt in Karate. He won 2nd place and a trophy at the Pine Bluff Tournament recently.

DISTRICT 9

by Shirley Morton

Arlie Keeter, Oral Young, Don Jordan, Paul Jennings, J. J. Pratt, Adrian Skaggs, Elbert Huddleston and Willie Hamlett, recent District Nine retirees, were honored at a party at District Headquarters on May 31. Gifts were presented to the honorees by District Maintenance Superintendent Larry Hodnett. Cake, punch and coffee were served to a large gathering of the families and friends of the eight men. We wish each of them good luck and good health during their retirement years. During the party, Arlie Keeter's co-workers presented him a lovely brunette

wig. Being a good sport, he donned the wig and posed for one photo (Ray Duffy and Leslie Gregory approve!!??)



Left to right: Arlie Keeter, Oral Young, Don Jordan, J. J. Pratt and Adrian Skaggs.



Left to right: Roy Brase, Paul Jennings (retiree) Dean Smith and Tom Carter.



Elbert Huddleston



Arlie Keeter

The girls in the office thank our new Assistant District Engineer, V. O. "Jim" Selby for his help at the refreshment table he really is a good server!!



V.O. "Jim" Selby

continued from page 10.

in the State Aid Division under the direction of John Kizer, State Aid Engineer. With inter-division cooperation the engineers observed the departmental responsibilities of Planning and Research, Surveys (Photogrammetry Section), M&T, Maintenance, Office Engineers, and District Six.

Pongsak and Prakob's responsibilities as engineers in Thailand include reviewing and checking engineering designs, budget approval for long-range planning, programming construction, and inspection of structures constructed by contract of ARD projects. Since one of their main interest was construction, they visited the new I-430 bridge construction site (see picture) at which time they were interviewed along with Mr. Kizer by KARK-TV (Channel 4) and KATV (Channel 7). During the interview and inspection trip Mr. Kizer explained a Pulaski County State-Aid project which will provide for a road along the south side of the Arkansas River connecting Rebsamen Park Road to Mt. Valley Drive. Mr. Kizer also explained a future State-Aid project along the river to extend west of I-430 approximately four miles. The combination of these two jobs would connect four recreational area projects along the river being planned and developed by the City of Little Rock, Corps of Engineers, and the State Parks and Tourism Department, which will benefit the community by providing recreational facilities to the public and environmental enhancement and preservation of the beauty of the Arkansas River. Pongsak and Prakob indicated that environmental considerations in Thailand were different due to the fact that most roads were gravel and the need for improved roads was great.

When ask the question what impressed them most about living in the United States, both stated they were surprised at the standard of living in the U.S. They stated that what Americans expected as necessities were rare luxuries to the people in Thailand because anything manufactured was more expensive in Thailand and the average wage per person is one-eighth that of Americans. Therefore, a person in Thailand would have to work at least eight times longer in Thailand to buy the same article as can be bought in the United States. So Americans, maybe we don't have it so bad after all.



FORE!

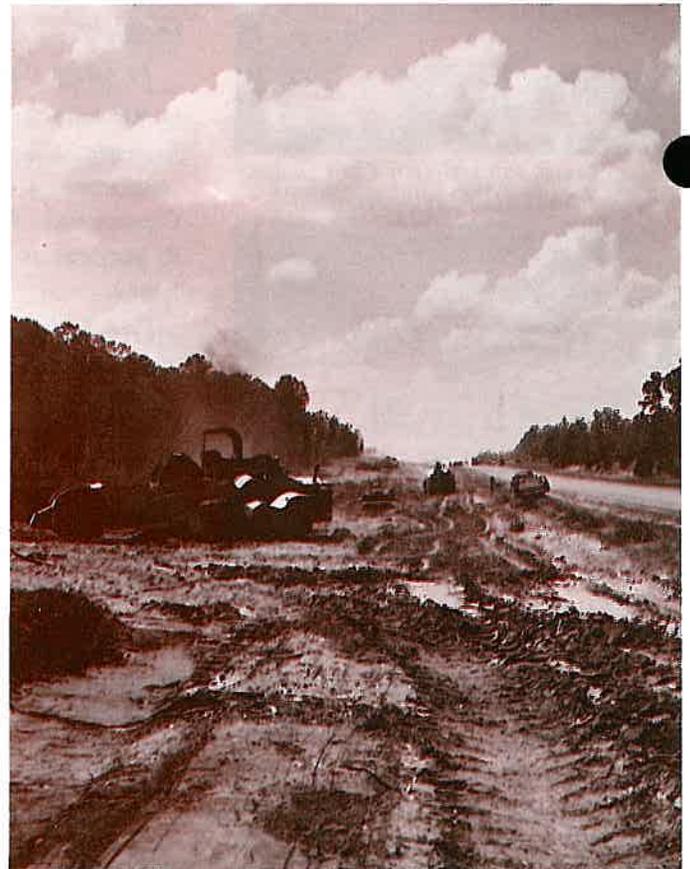
Winners of the AHD 4-Ball Golf Tournament at the War Memorial course during the month of June are are follows:

Championship Flight
Terry Hardison & Dudley Beard, Jr.
Melvin Hall and Jake Weston
John Carter & Gary French

First Flight
Bernie Babb & Vesto Francis
Dale Loe & Jim Darnell
Larry Johnson & Paul Kirkpatrick

Second Flight
Tom Willet & Joe Reynolds
Ronnie Baker & Ronnie Watson
Steve Wilson & Jim Moody

PINE BLUFF HIGHWAY BEGUN



Construction underway on additional lanes of U.S. 65 between U.S. 167 and S.H. 365 in Pulaski and Saline Counties. This 5.8-mile stretch is being constructed by the Ben M. Hoga Company. The contract in the amount of \$4,298,559 was awarded May 21.

largest letting ever continued.

has vigorously pursued the program, which was authorized by the Legislature in Act 445 of 1973.

During the first year 469 miles of county road improvements in 61 counties were completed, project plans prepared or surveys or project inspections completed. The total cost of the projects is about \$17.9 million. The State-Aid Program is well ahead of the anticipated schedule. Almost 10 percent of the 5,000-mile State-Aid County Road System will be improved upon completion of these projects.

Fiscal year 1975 may prove to be a difficult one for

the Highway Department as rising prices and construction costs coupled with decreased revenues cut away at the Highway Construction Dollar.

Based on contract prices, the highway construction cost index for Arkansas in 1972, was 417 using 1940 for the base year of 100. For 1973, the index rose to 565, reflecting an increase of 35.5 percent. Major economic sources strongly feel that this inflationary force is likely to continue through fiscal year 1975.

The construction program on State highways for fiscal year 1975 is anticipated to be approximately \$110 million.



The awarding of contracts by the Arkansas Highway Commission.



ARKANSAS HIGHWAY DEPARTMENT
P. O. Box 2261 Little Rock, Arkansas 72203

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