In Memory of...

Robert C. Deen

The University of Kentucky lost a valuable colleague and researcher with the death of Robert C. Deen on March 25, 1988. Dr. Deen was director of the Kentucky Transportation Research Program and was recognized nationally for his research work. He had taught numerous undergraduate and graduate courses in geotechnical engineering and had directed numerous geotechnical research studies. His research and professional interest also included pavement design, performance, and evaluation.

Dr. Deen will be sadly missed by his staff, colleagues, and many friends.
PROCEDINGS

Kentucky’s Twenty-Fourth Conference on Transportation
March 19-20, 1987
University of Kentucky Campus

SPONSORS:
Kentucky Transportation Cabinet
University of Kentucky
College of Business and Economics
College of Engineering
College of Law

COORDINATING AGENCY:
The Kentucky Transportation Center
University of Kentucky
College of Engineering
Telephone: 1-800-432-0719 / 1-606-257-1188

PROGRAM PLANNING ORGANIZATIONS:
Kentucky County Judge/Executive Association
Kentucky Association of Highway Contractors
Plantmix Asphalt Industry of Kentucky
Consulting Engineering Council
Woodford County Road Department
Kentucky Municipal League
Kentucky Transportation Cabinet
Kentucky Society of Professional Engineers

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PREFACE

THE UNIVERSITY OF KENTUCKY...

was established in 1865 as a land-grant institution and today is made up of 17 colleges: Agriculture, Arts and Sciences, Communications, Engineering, Fine Arts, Law, Business and Economics, Education, Pharmacy, Medicine, Nursing, Dentistry, Architecture, Allied Health Professions, Home Economics, Library Science, Social Work, and the Graduate School. Current enrollment totals approximately 22,000 on the Lexington campus and 29,000 in the fourteen community colleges operated by the University. University staff in the areas of engineering and transportation total 25 in the Kentucky Transportation Research Program, 7 in the Kentucky Transportation Center, and 21 on the faculty of the Civil Engineering Department.

On July 1, 1987, Dr. David P. Roselle became the ninth president of the University of Kentucky.

THE KENTUCKY TRANSPORTATION CENTER...

was established in 1979 as part of the College of Engineering by the University Board of Trustees. The purpose of the Center is to bring industry, government, and academia together in their efforts to address transportation problems and development through research and the dissemination of research findings through technology transfer.

An Advisory Board for the Center was created by the Kentucky General Assembly to assist in policy formulation and to provide direction for the Center. Membership on the Board consists of the Secretary of the Kentucky Transportation Cabinet, the State Highway Engineer, the Dean of the College of Engineering, one member each recommended by the Kentucky Association of Counties, the Kentucky County Judge/Executive Association, and the Kentucky Municipal League, and three at-large members. The Board is appointed by the Governor.

On July 1, 1984, the Center was designated a Technology Transfer Center by the US Department of Transportation, the Federal Highway Administration, and the Kentucky Transportation Cabinet. Referred to as T2 (T-Square), this program is administered by the Center in cooperation with the Kentucky Transportation Research Program, which became part of the University in January 1981.

Beginning with a staff of two in 1980, the Center now employs seven full time staff members, including the Director; conducts approximately 25 workshops annually throughout the state; publishes a quarterly newsletter; and is the coordinating agency of the annual Forum on Transportation.
KENTUCKY'S TWENTY-FOURTH CONFERENCE ON TRANSPORTATION . . .

marked the revival of the conferences after a fifteen year hiatus during which time vast changes occurred in the transportation industry creating a need for the exchange of information among all levels of government, academia, and industry.

Recognizing this need, the Kentucky Transportation Center accepted the challenge of initiating and the responsibility for coordinating the development of the environment in which the exchange of information could occur. Co-sponsored by the Kentucky Transportation Cabinet, and the colleges of Business and Economics, Engineering, and Law at the University of Kentucky, the Twenty-Fourth Conference on Transportation took place on the campus of the University of Kentucky, Lexington, on March 19-20, 1987, with the following stated purpose:

To provide an opportunity for governments, universities, and industries to discuss important current and emerging transportation issues.

There were 232 participants.

THE PROCEEDINGS OF THE CONFERENCE . . .

documents the activities and exchange of ideas which occurred during the two-day conference and is published as a source of reference for those who participated and as an incentive for others to participate in future conferences.
The University of Kentucky is an institution, not only of higher learning, but with an outstanding reputation for its research programs. It is my belief that the knowledge available at any institution is only as good as that institution's ability to transmit that knowledge to those who might benefit from it.

The Kentucky Transportation Center at the University of Kentucky is a member of a group, numbering 44 in the nation, known as Technology Transfer or T2 Centers. For a number of years, the Center has conducted workshops across the state, providing the environment for the transfer of the latest technology in transportation to those individuals in our Commonwealth who use it in their transportation systems.

It is with great pride that I say I believe the Center came into full bloom in March 1987 with the re-establishment of the State's annual transportation conference. Using the theme, "Increasing Productivity Through Leadership and Better Management," we brought together in one forum an exemplary array of knowledge in the persons of representatives from industry, academia, and government -- local, state, and federal. Their purpose was to share through discussion their expertise on some of the most important aspects, positive and negative, of transportation today. Their expertise is gleaned from three vital areas: experience, education, and research; and the secret of the success of this conference was the merging of the information shared by the individuals who participated.

These proceedings have been published as a further effort on the part of the Center to serve the University and the Commonwealth of Kentucky in what we see as our mission -- the transfer of knowledge.

Calvin G. Grayson, Director of the Kentucky Transportation Center since 1983, holds a BS degree in Civil Engineering from UK and served the Commonwealth of Kentucky as Secretary of Transportation from March 1977 through December 1979. Prior to that time he held positions as State Transportation Planning Engineer, Assistant State Highway Engineer, Assistant Director of Planning, Design Engineer, and Bridge Design Engineer, a career spanning three decades. A native Kentuckian, Mr. Grayson is active in numerous professional and civic organizations and a registered professional engineer in the states of Kentucky and West Virginia.
IN RECOGNITION OF . . .

CONTRIBUTORS

Sincere gratitude is offered to those organizations who provided financial support for various activities vital to the success of the 24th Conference on Transportation. Their insight into the need for the Conference and their confidence in the Center to provide the environment to address that need are most appreciated.

Those organizations include:

Consulting Engineers Council of Kentucky
Kentucky Crushed Stone Association
Kentucky Association of Highway Contractors
Kentucky Equipment Distributors Association
The Plantmix Asphalt Industry of Kentucky, Inc.

SPONSORS

The sponsorship of the Kentucky Transportation Cabinet and the University of Kentucky colleges of Business and Economics, Engineering, and Law are gratefully acknowledged by the Kentucky Transportation Center.

PROGRAM PLANNING COMMITTEE

The following individuals, and the organizations they represent, provided valuable guidance in the planning of the program for the 24th Conference on Transportation. Their time, technical expertise, and personal interest provided the support needed for the success of the Conference. The staff of the Kentucky Transportation Center is most appreciative of the input of the following:

James B. Allen, President, Kentucky County Judge/Executive Association
Roger Blair, Executive Director, Kentucky Association of Highway Contractors
Dean Blake, Executive Director, PlantMix Asphalt Industry of Kentucky
Clyde Coe, President, Consulting Engineering Council
Arthur Craig, Engineer, Woodford County Government
Robert C. Deen, Director, Kentucky Transportation Research Program
E. Todd Eberle, Director, Continuing Education, UK College of Law
Richard G. Edwards, Director, Continuing Education, UK College of Engineering
Edwin Griffin, Executive Director, Kentucky Municipal League
Merl Hackbart, Associate Dean, UK College of Business and Economics
Cy Layson, Assistant State Highway Engineer for Administration and Research, Kentucky Transportation Cabinet
Jim Parsons, Executive Director, Kentucky Society of Professional Engineers
KENTUCKY'S 24th CONFERENCE ON TRANSPORTATION

Campus of the University of Kentucky
March 19-20, 1987

PROGRAM

Thursday, March 19

Opening General Session

Presiding: Calvin G. Grayson, Director
Kentucky Transportation Center

Introductions: Ray M. Bowen, Dean
UK College of Engineering

Welcome: Art Gallaher, Jr., Chancellor
UK Lexington Campus

C. Leslie Dawson, Secretary
Kentucky Transportation Cabinet

Address: "Shifting Responsibilities and Resources"
Frank Shafroth
Director of Federal Relations
National League of Cities

Panel Discussion: "State and Local Government Reactions"

Moderator: Larry Hayes
Secretary, Governor's Cabinet

Panelists: Charles F. Haywood
UK Professor of Finance

Edwin L. Griffin
Executive Director
Kentucky Municipal League

Prentice Harvey
Executive Director
KY County/Judge Executive Association

Luncheon

Presiding: C. Leslie Dawson, Secretary
Kentucky Transportation Cabinet

Address: Lt. General E.R. Heiberg, III
Chief of Engineers and Commander
US Army Corps of Engineers

Recognition of Outstanding Road Programs
Concurrent Work Sessions

Local Roads Management Clinic

Moderator: Otto Ingram, Commissioner
Department of Rural and Municipal Aid
Kentucky Transportation Cabinet

"Bridges: Rehabilitate, Replace or Close"

Freddie Goble, Bridge Engineer, District #12
Kentucky Department of Highways

Donald K. Bryant,
Daviess County Road Engineer

"Surfacing: Routine, Preventative Maintenance, Rehabilitation or Reconstruction"

Ellis G. Williams, President, Duo Services, Inc.

Edward L. Minter, Chief Chemist,
Division of Materials,
Kentucky Department of Highways

Traffic Management Clinic

Moderator: Bruce Siria, Director
Division of Specialized Programs
Kentucky Department of Highways

Panel:
Michael Hailperin, Director of Transportation Planning, Lexington-Fayette Urban County Government

William S. Sampson, Traffic Engineer,
Lexington-Fayette Urban County Government

George A. Yates, Transportation Engineer,
Division of Traffic, Kentucky Department of Highways

Anthony J. Barry, Manager, System Sales,
Econolite Control Products, Inc., Anaheim, CA

Construction Management and Engineering

Moderator: Garey White, Associate Professor,
UK Civil Engineering

Panel:
Paul Faulkner, President, Highway Structures, Inc.

Robert A. Walsburger,
Assistant State Highway Engineer,
Kentucky Transportation Cabinet

Annual Meeting: Institute of Transportation Engineers, Kentucky Chapter

Meeting: Legislative Subcommittee on Highway and Vehicle Regulation

Friday, March 20

General Session

Presiding: The Honorable Helen Garrett, Chairman
Subcommittee on Highway and Vehicle Regulation,
Kentucky General Assembly

Introductions: Thomas R. Layman, Director, Division of Bridges,
Kentucky Department of Highways

Address: "Tennessee Bridges The Gap"
Clellon Loveall, Assistant Executive Director
Bureau of Planning and Development,
Tennessee Department of Transportation

Joint Panel Discussion: Consultants-Contractors-Locals

Moderator: James L. Youngquist, Chairman
Kentucky Association of District Directors

Panelists: Russell Sights, City Manager
City of Henderson

The Honorable Mike Miller, President
Kentucky County Judge/Executive Association

Dean Blake, Executive Director
The PlantMix Asphalt Industry of Kentucky

Henry L. Hinkle, President
Hinkle Contracting Corporation

James D. Scott, President
Scotty’s Contracting, Inc.

James Parsons, Executive Director
Consulting Engineering Council

E.B. Gaither, Chairman
Committee on Transportation, CEC

Lewis N. Melton,
Vaughn & Melton Engineers-Architects

Luncheon
Presiding: Robert K. Capito
State Highway Engineer
Kentucky Transportation Cabinet

Speaker: R.D. Morgan, Executive Director
Federal Highway Administration

Adjournment