AMERICAN
CONCRETE
INSTITUTE

ANNUAL AWARDS

"progress through knowledge"

APRIL 1, 1993
SPRING CONVENTION
VANCOUVER, B.C., CANADA
HOTEL VANCOUVER

AWARDS

Honorary Membership
Peter D. Courtois (deceased)
Emery Farkas
Yves Saillard

Arthur R. Anderson Award
Sidney Diamond

Roger H. Corbetta Concrete Constructor Award
Daniel L. Baker

Joe W. Kelly Award
Roger E. Wilson

Henry L. Kennedy Award
Kenneth H. Murray

Alfred E. Lindau Award
Mete A. Sozen

Henry C. Turner Medal
Norman L. Scott

Charles S. Whitney Medal
Concrete Reinforcing Steel Institute

Wason Medal for Materials Research
Vagelis G. Papadakis
Costas G. Vayenas
Michael N. Fardis

Wason Medal for Most Meritorious Paper
Vincent E. Sagan
Peter Gergely
Richard N. White

ACI Structural Research Award

Kent A. Paulson

Arthur H. Nilson

Kenneth C. Hover

Chapter Activities Award

Ronald E. Vaughn

Delmar L. Bloem Awards for Distinguished Service

Nicholas J. Carino

Grant T. Halvorsen

Douglas D. Lee

Paul R. Stodola

Fellows

Chapter Awards - Citations of Excellence

Membership Citations

Concrete Research Council
Robert E. Philleo Award

David C. Stark

Reinforced Concrete Research Council
Arthur J. Boase Award

James O. Jirsa

Portland Cement Association
Concrete Bridge Awards

Alsea Bay Bridge Approaches — Oregon

Discovery Bridge (Broad St. Bridge Replacement) — Ohio

Hanging Lake Viaduct — Colorado

Pescadero Creek Bridge — California

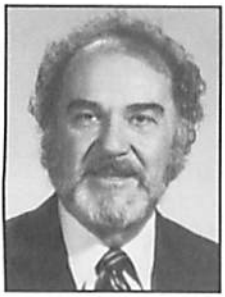
Rosalind Avenue Bridge — Florida

Shelby Creek Bridge — Kentucky

Wando River Bridge — South Carolina

West Seattle Swing Bridge — Washington

"progress through knowledge"



HONORARY MEMBERSHIP TO

PETER D. COURTOIS

"for outstanding service to the concrete industry as a director, and as a member or chair of various technical, educational, and Board committees of the American Concrete Institute, and for his significant contributions to formwork technology for concrete construction."

Peter D. Courtois, a member of the Institute for more than 30 years and senior vice president of engineering for the Dayton Superior Corp., Miamisburg, Ohio, passed away in April 1992 after a lengthy illness.

A former member of ACI's Board of Direction and chairman of the Convention Committee, Courtois' honors included the Institute's Henry L. Kennedy Award in 1988 for "advancing the purposes of ACI in many technical aspects, in particular formwork design and applications," the Construction Practice Award in 1978 for authorship of a paper on form spaces, and a Delmar L. Bloem Distinguished Service Award in 1979. The Bloem award recognized his contributions as chairman of Committees 347, Formwork, and 551, Tilt-up Concrete Construction.

He also served on the Construction Liaison Committee, the Concrete Materials Research Council, and the Publications Committee and was a Fellow of the Institute. Prior to his death, Courtois was elected an honorary member of the Tilt-up Concrete Association, an organization of which he was a founder and a former president.

An engineering graduate of Illinois Institute of Technology, he was with Superior Concrete Accessories, Inc., in Des Plaines, Ill., and then in San Diego, Calif., before that firm's merger with the Dayton Sure-Grip Co., Dayton, Ohio, in 1983. Following that merger and creation of Dayton Superior, Courtois moved to the Ohio corporate headquarters.

HONORARY MEMBERSHIP

The Institute recognizes persons of eminence in its field, or those who perform extraordinary meritorious service to the Institute, by conferring on them Honorary Membership (see Bylaws, Article II, Section 2).

HONORARY MEMBERSHIP TO

EMERY FARKAS

"for distinguished service to ACI as President and Chairman of the Financial Advisory Committee as well as the Educational Activities Committee, and for outstanding leadership in standardization activities."

Emery Farkas, past president of ACI and a member since 1958, is vice president, Construction Products Division, W. R. Grace & Co., Cambridge, Mass.

He served as the Institute's president in 1985 following terms as vice president and member of the Board of Direction. A former chairman of the Educational Activities Committee, Farkas currently heads the Financial Advisory Committee and was previously a member of the Planning Committee and the Publications Committee.

A Fellow of the Institute, he was the recipient of the Henry L. Kennedy Award in 1981 for "his many years of outstanding technical and administrative services" to ACI. Farkas has also been a member of Committees 201, Durability, and 222, Corrosion of Metals in Concrete.

A long-time member of ASTM, he served a one year term as chairman of the board of that society during 1992 after previously holding positions as vice chairman and a member of the ASTM board of directors.

A native of Hungary, he graduated with a chemical engineering degree from the Polytechnic University of Budapest and came to the United States as a teaching fellow at Harvard University. Farkas later attended the Sloan School for Business Executives at Massachusetts Institute of Technology and joined W. R. Grace in 1957.

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HONORARY MEMBERSHIP TO

YVES SAILLARD

"for his life long leadership and contributions to the advancement of reinforced and prestressed concrete and for strengthening U. S.-European cooperation in the field of concrete."

Yves Saillard, Paris, France, was one of the founding members and for many years was the executive vice president of Comité Euro-International du Beton (CEB), the leading concrete organization in Europe.

Now the CEB's honorary executive president, Saillard has been instrumental in establishing and developing cooperation between that organization and ACI and other associations. He noted that this cooperation was notably effective between ACI's Committee 318 and CEB's Commission in Practical Recommendations, resulting in international "model codes" for design, construction, and repair of reinforced and prestressed concrete structures.

"...over the last three decades, we have come a long way, working side by side at ACI and CEB, pursuing the same objectives as engineers-constructors," Saillard commented recently.

Educated at École Nationale des Ponts et Chaussees and the Institute Henri Poincare in Paris, he was involved in bridge design following World War II when France was in the process of reconstruction. When Saillard and other European professors and engineers cooperatively formed CEB, he joined the new organization as secretary, a title later changed to executive vice president and then executive president.

As the chief staff officer of CEB, Saillard directed and edited many of the organization's codes and application manuals, many of which are used internationally. In recent years, he has served as CEB's representative on the committee charged with drafting the concrete portion of a unified *Eurocode* for European Common Market nations.

A Fellow of ACI and a member for more than 35 years, he has been a liaison member of Committee 318 for many years and also served on Committee 435, Deflection of Concrete Structures.

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The Institute recognizes persons of eminence in its field, or those who perform extraordinary meritorious service to the Institute, by conferring on them Honorary Membership (see Bylaws, Article II, Section 2).

ARTHUR R. ANDERSON AWARD TO

SIDNEY DIAMOND

"for many years of outstanding research and technical contributions leading to better understanding of the behavior of cement and concrete as a construction material."

Sidney Diamond is professor of engineering materials, Purdue University, West Lafayette, Ind., and has been on the faculty there for 27 years.

A Fellow of ACI, he is a member of Committee 225, Hydraulic Cements, and a former member of Committee 547, Refractory Concretes. The author of numerous technical publications, he has specialized in the chemistry and microstructure of cement and the physicochemical and related aspects of concrete.

A member of ACI for more than 20 years, he is also a member of the American Ceramic Society and is a recipient of that organization's Copeland Award for "outstanding contributions to the development and understanding of the science and technology of cements."

Also a member of ASTM and the Transportation Research Board, Diamond joined the faculty at Purdue in 1965 after receiving degrees from Purdue, Syracuse, and Duke universities.

ARTHUR R. ANDERSON AWARD

The Arthur R. Anderson Award was established in 1972 by the Institute in recognition of Arthur R. Anderson, past president of the Institute, for his imaginative and outstanding leadership and insistence on excellence of concrete quality for engineering works.

The award is given for outstanding contributions to the advancement of knowledge of concrete as a construction material and need not be presented each year. All persons, firms, corporations, or organizations are eligible to receive the award.

ROGER H. CORBETTA CONCRETE CONSTRUCTOR AWARD TO

DANIEL L. BAKER

"for his significant and outstanding contributions to the concrete industry as a constructor, through his farsighted adaptation of new and innovative methods, materials and equipment; and for his commitment to quality and excellence that has expanded the boundaries of concrete flatwork technology."

Daniel L. Baker, a Fellow of ACI and a member for 20 years, is the president of Baker Concrete Construction Co., Inc., headquartered in Monroe, Ohio, with a regional office in Houston, Tex., and branch offices in Ohio, North Carolina, and Florida.

A sustaining member of the Institute, the Baker firm is one of the nation's largest concrete contracting companies, annually ranked by *ENR, (Engineering News-Record).*

Nominated for a seat on ACI's Board of Direction last year, Baker is scheduled to begin a three-year term following the installation of new officers at the General Session in Vancouver. He is chairman of the Construction Liaison Committee, a member of the Membership Committee, and heads the Advanced Solicitation Division of the Capital Campaign, ACI's drive to raise $3 million for the construction of a new headquarters building.

Baker began his career in construction at the age of 15, working as a laborer for his grandfather, a cement mason and local contractor for more than 60 years. He and two brothers, Ken and Jim, started their own concrete flatwork business in 1968 in order to finance their education at Miami University, Oxford, Ohio.

He is also a former director of ACI's Greater Miami Valley chapter and is a member of numerous contracting and professional associations.

ROGER H. CORBETTA CONCRETE CONSTRUCTOR AWARD

The Roger H. Corbetta Concrete Constructor Award was established in 1972 in recognition of Roger H. Corbetta, past president of the Institute, for his creative leadership and his many outstanding contributions to the use of concrete for construction.

The award is given to an individual or an organization who, or which, as a constructor, has made significant contributions to progress in methods of concrete construction. The award need not be presented each year.

JOE W. KELLY AWARD TO

ROGER E. WILSON

"for his years of dedication to advancing the knowledge of cement, concrete technology, and concrete construction through hands-on educational programs for the concrete industry's designers, constructors, and craftsmen."

Roger E. Wilson is the manager of education and training, Portland Cement Association, Skokie, Ill. With PCA for 34 years, he has been involved in that association's cement and concrete educational efforts for 27 years.

A Fellow of ACI and a member since 1965, he formerly served on the Educational Activities Committee and is now a member of Committees E 903, Convention Training; C601, New Certification Programs; 121, Quality Assurance Systems; and 311, Inspection of Concrete; he is a past chairman of the latter. Wilson is also a former member of Committees 309, Consolidation; E 601, Seminars and Workshops; and E 902, Certification.

An engineering graduate of the University of Connecticut, Wilson is a member of numerous professional organizations, including the American Society of Association Executives which honored him in 1987 for "outstanding" efforts on behalf of educational programming.

JOE W. KELLY AWARD

The Joe W. Kelly Award was established in 1974 in recognition of the contributions of Joe W. Kelly, past president of the Institute, to concrete technology, his devotion to teaching, the advancement of his profession, and the use of concrete in construction.

The token of the award (a plaque) is given only for outstanding contributions to education in the broad field of concrete and need not be given each year.

HENRY L. KENNEDY AWARD TO

KENNETH H. MURRAY

"in recognition of his many outstanding technical and administrative services to the Institute, in particular as chairman of the Educational Activities Committee."

Kenneth H. Murray, a member of ACI's Board of Direction, is chairman of the Department of Civil Engineering and professor at North Carolina A. & T. State University, Greensboro, N. C., where he has been on the faculty since 1986.

A Fellow and a member of the Institute for about 25 years, he also serves on the Financial Advisory Committee; Certification Programs Committee; Committee E 702, Designing Concrete Structures; and Committee 408, Bond and Development. Murray served as chairman of EAC for nearly five years.

A member of the Carolinas chapter, he was a principal engineer for Gilbert/Commonwealth, Inc., Reading, Pa., and a member of the faculty at Old Dominion University, Norfolk, Va., prior to moving to North Carolina. Murray has been an ACI member since his student days at Virginia Polytechnic Institute and State University, Blacksburg, Va., where he received all three of his engineering degrees.

He is a member of the American Society of Engineering Education and numerous other professional organizations.

HENRY L. KENNEDY AWARD

The Henry L. Kennedy Award was established in 1958 by the Institute to honor the late Henry L. Kennedy, an extremely active Institute member who was a past president and, at the time of his death, chairman of the Institute's Building Committee.

The award is given only for outstanding technical or administrative service to the Institute and is not mandatory each year. The bases for selection of awardees are outstanding activity or service that has enhanced the Institute's prestige, marked leadership in technical, administrative, or special committee work or other distinguished service to the Institute.

Except under unusual circumstances, honorary members, past presidents, and current officers and directors will not be considered for this award. The award is in the form of a framed scroll.

ALFRED E. LINDAU AWARD TO

METE A. SOZEN

"for outstanding contributions to understanding of the behavior and strength of structural concrete members and to translation of this understanding into design provisions, particularly for members subject to seismic loadings."

Mete A. Sozen, professor of engineering at the University of Illinois, Urbana, Ill., has been an ACI member for more than 30 years.

A member of the Board of Direction in 1968-70, he was nominated for a similar post last fall and is slated to begin another three year term on the Board following the General Session in Vancouver.

His honors have included the Institute's Joe W. Kelly Award in 1975 for "excellence as a teacher as exemplified by the many outstanding teachers, researchers, and practitioners who were taught and inspired by him" and a Delmar L. Bloem Distinguished Service Award in 1985 for contributions to ACI technical activities. Sozen is also a member of the Technical Activities Committee and serves on several technical committees, including Committee 318, chairing its subcommittee on serviceability, safety, and analysis.

Widely known for his studies of earthquake response and damage to reinforced concrete structures and his participation in investigations that followed major seismic activity, Sozen received his Bachelor's degree from Robert University, Istanbul, Turkey, before moving to the University of Illinois for graduate studies. He joined the faculty at Illinois as a research associate in 1955 and was named to a full professorship in 1963.

ALFRED E. LINDAU AWARD

The Alfred E. Lindau Award was founded in 1947 by the Concrete Reinforcing Steel Institute to honor the memory of Alfred E. Lindau, past president of the American Concrete Institute.

The award shall be given only for outstanding contributions to reinforced concrete design practice and is not mandatory each year. Any and all persons, firms, or corporations are eligible to compete for and receive the award.

The token of the award is a bronze plaque bearing a bas-relief portrait of Mr. Lindau.

HENRY C. TURNER MEDAL TO

NORMAN L. SCOTT

"for his many contributions to the design of precast and prestressed concrete structures, plus his outstanding service to the concrete industry as exemplified by his fostering of the ACI Craftsman Certification Program and the formation of the Concrete Materials Research Council."

Norman L. Scott, past president of the Institute, is the board chairman of the Consulting Engineers Group, Inc., Mt. Prospect, Ill., a consulting firm that he founded in 1966.

A Fellow and a member of the Institute for 35 years, he is a member of the Planning Committee; the Concrete Research Council (formerly the Concrete Materials Research Council); Committee 423 on Prestressed Concrete; and chairs the Committee on Responsibility in Concrete Construction. Scott is also active in ACI's current Capital Campaign and is chairman of the Central States Region for the fund raising effort.

He served on the Board of Direction in the 1970s and was a vice president prior to assuming the presidency in 1983. He was also chairman of ACI's Institute and Industry Advancement Committee for several years before it was discharged.

A graduate of the University of Nebraska, Scott was associated with a Florida prestressed manufacturing firm for several years before joining the Prestressed Concrete Institute as its executive director. During his tenure there, he managed PCI's headquarters move from Boca Raton, Fla., to the Chicago area.

Scott also served as general manager of Wiss, Janney, Elstner Associates, Northbrook, Ill., prior to the formation of Consulting Engineers.

HENRY C. TURNER MEDAL

The Henry C. Turner Medal was founded in 1927 by Henry C. Turner, past president, American Concrete Institute. It is awarded for notable achievements in, or service to, the concrete industry. In making selections for the Turner Medal the committee is not restricted to members of the Institute nor to the achievements of any particular period. It may be awarded once in any year, but not necessarily in each year.

CHARLES S. WHITNEY MEDAL TO

CONCRETE REINFORCING STEEL INSTITUTE

"for continuing contributions since its founding in 1924 that have supported research, advanced design, and fostered standardization of codes and specifications for reinforced concrete construction."

The **Concrete Reinforcing Steel Institute,** one of America's oldest trade associations, has a primary objective of fostering and increasing the use of reinforced concrete construction.

Headquartered in Schaumburg, Ill., and now in its 69th year, CRSI develops and disseminates information regarding the use of safe and proper materials in reinforced concrete construction and promotes the standardization of materials, specifications, and building codes. The Institute also supports research, strives to transfer research results into actual practice, and carries out other promotional programs aimed at architects, engineers, and owners of structures and transportation facilities.

With a current membership of 246 firms including fabricators and producers of reinforcing bars, epoxy coating applicators, formwork suppliers, detailing/estimating services, and manufacturers of welded wire fabric, and more than 400 individuals/professional members, CRSI's major efforts are in the publication of technical books, manuals, and reports; the support of 27 standing committees which play a role in drafting such publications; promotional programs including seminars, direct mail, and design awards; standardization of materials and specifications, notably those related to reinforcing steel grades and sizes; fostering and encouraging education; and research.

continued

In 1990, the Concrete Reinforcing Steel Institute Fund, Inc., (CEFI) was established as a separate corporation to raise funds for financial assistance to students; during a 10 year period, 1981 through 1991, 59 graduate students received financial aid from CRSI.

CRSI and ACI have had a long and mutually beneficial working relationship dating back to the late 1920s when the two associations collaborated in the drafting of a standard building code. This joint venture led to ACI's sole responsibility for the drafting and publication of the existing "Building Code Requirements for Reinforced Concrete."

A similar occurrence took place in 1947 when CRSI published its "Manual of Standard Practice for Detailing Reinforced Concrete Structures." This document became the basis for the ACI 315 detailing standard and evolved into the current "Detailing Manual (SP-66.)"

CRSI now has a staff of 17, directed by President Victor A. Walther, Jr. David P. Gustafson, CRSI's technical director who serves on ACI's Technical Activities Committee and several technical committees, was slated to receive the award on behalf of CRSI at the Vancouver convention.

CHARLES S. WHITNEY MEDAL

The Charles S. Whitney Medal for Engineering Development was founded in 1961 by Ammann and Whitney to honor the memory of Charles S. Whitney. It may be bestowed once in any year, but not necessarily in each year, for noteworthy engineering development work in concrete design or construction. The recognition may be extended to a firm or agency alone or to an individual.

Any outstanding engineering development work contributing importantly, through development of general engineering practice or through application in specific noteworthy projects, to the advancement of the sciences or arts of concrete design or construction is eligible.

WASON MEDAL FOR MATERIALS RESEARCH TO

VAGELIS G. PAPADAKIS
COSTAS G. VAYENAS
MICHAEL N. FARDIS

"for their paper ('Fundamental Modeling and Experimental Investigation of Concrete Carbonation'), on mathematical modeling of the complex phenomenon of carbonation which provides an approach for further evaluation and understanding of corrosion of reinforcing steel in concrete," published in the ACI Materials Journal, *July/August 1991.*

Vagelis G. Papadakis, is associated with the Institute of Chemical Engineering and High Temperature Chemical Processes, Patras, Greece.

At the time of research and publication of the paper, he was a graduate student in the Department of Chemical Engineering, University of Patras, Greece, where he also received a Bachelor's degree in chemical engineering.

His Ph.D. at Patras focused on carbonation and durability of concrete.

Costas G. Vayenas is professor of chemical engineering at the University of Patras and a researcher at the Institute of Chemical Engineering and High Temperature Chemical Processes.

Prior to joining the faculty at Patras in 1981, he was an associate professor at Massachusetts Institute of Technology and an assistant professor at Yale University. He holds a Ph.D. in chemical engineering from the University of Rochester and a Bachelor's from the National Technical University, Athens, Greece.

His research specialties have included heterogeneous catalysis, mathematical modeling of chemical processes, and high temperature electrochemistry.

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Michael N. Fardis is professor of concrete structures, University of Patras, Greece, and has been on the faculty there for 11 years.

A member of ACI, he holds engineering degrees, including a Ph.D., from Massachusetts Institute of Technology and was an associate professor at MIT before moving to Patras. Fardis is an associate member of Committee 442, Response to Lateral Forces, and serves on several committees of the Comité Euro-International du Beton.

WASON MEDAL FOR MATERIALS RESEARCH

The Wason Medal for Materials Research was founded in 1917 by Leonard C. Wason, past president, American Concrete Institute. It may be bestowed once in any year, but not necessarily in each year, on the member or members of the Institute reporting in a paper before the Institute, within the year noteworthy original research work or discovery relating to materials.

Any report of original research work on concrete materials and their uses, or a discovery which advances the state of knowledge of materials used in the concrete industry, is eligible for the Wason Medal for Materials Research. When awarded, it is bestowed for the research discovery judged worthy of special commendation. It is restricted to members of the Institute, but if a paper of multiple authorship has one author an ACI member, all coauthors become eligible for the award.

Prior to the awards for 1971, this medal was awarded to research papers dealing with any phase of Institute interests. The medal is bronze.

WASON MEDAL FOR MOST MERITORIOUS PAPER TO

VINCENT E. SAGAN
PETER GERGELY
RICHARD N. WHITE

"for their paper ('Behavior and Design of Noncontact Lap Splices Subjected to Repeated Inelastic Tensile Loading'), which describes, for the first time, the behavior of noncontact splices for high level cyclic loads and a simple procedure for designing these splices," published in the ACI Structural Journal, *July/August, 1991.*

Vincent E. Sagan is a senior engineer at Simpson Gumpertz & Heger, Inc., Arlington, Mass., and has been employed by that firm for four years.

He is a graduate of the University of Cincinnati, Ohio, and received a Master's degree at Cornell University in 1988.

Peter Gergely, a former member of ACI's Board of Direction, is professor of structural engineering at Cornell University and has been on the faculty there for 30 years.

A Fellow of ACI, he received a Delmar L. Bloem Distinguished Service Award in 1981 for his contributions as chairman of Committee 408, Bond and Development of Reinforcement. He still serves on Committee 408 as well as three other Institute technical committees.

Gergely was educated at the Technical University, Budapest, Hungary, McGill University in Canada, and the University of Illinois where he received his Ph.D. in 1963 prior to joining the Cornell faculty. He served on ACI's Board from 1985 to 1988.

Richard N. White is a member of ACI's Board of Direction and also chairs the Institute's Technical Activities Committee.

A Fellow of ACI and the James A. Friend Family Professor of Engineering at Cornell University, White is also a member of the Convention Committee, the Construction Liaison Committee, International Activities Committee, and three technical committees. He received the Institute's Joe W. Kelly Award a year ago for "outstanding contributions to education in concrete as a teacher, researcher, author, and academic administrator."

He has been on the faculty at Cornell for more than 30 years and was formerly associate dean for undergraduate programs at that university's School of Civil and Environmental Engineering. White received three engineering degrees from the University of Wisconsin prior to moving to Cornell.

WASON MEDAL FOR MOST MERITORIOUS PAPER

The Wason Medal for The Most Meritorious Paper was founded in 1917 by Leonard C. Wason, past president, American Concrete Institute, and has been awarded continuously since that date. It is awarded each year to the author or authors of the most meritorious paper published by the Institute.

All original papers presented to the Institute by members (or if coauthored at least one author must be an ACI member) and published by the Institute during the volume year for which the medal is awarded are eligible, provided such papers have not previously been published. The medal is bronze.



ACI STRUCTURAL RESEARCH AWARD TO

KENT A. PAULSON
ARTHUR H. NILSON
KENNETH C. HOVER

"for their paper ('Long-Term Deflection of High Strength Concrete Beams'), which summarizes tests at Cornell University comparing the time-dependent deflections of beams made using high strength and normal strength concrete, and includes design-oriented proposals for modifications of the deflection provisions of the ACI Building Code," published in the ACI Materials Journal, *March/April 1991.*

Kent A. Paulson is a structural engineer with Stanley Consultants, Inc., Minneapolis, Minn.

He obtained his Bachelor's in civil engineering from the University of Minnesota and was an graduate assistant there before moving to Cornell University where he received a Master's degree in 1989. Paulson was the recipient of an ACI Fellowship for graduate study at Cornell.

Arthur H. Nilson recently retired after 35 years on the faculty at Cornell University, Ithaca, N. Y., and was accorded professor emeritus status.

A Fellow of ACI, he was the recipient of ACI's Wason Medal on three separate occasions; for materials research in 1974 for a paper on stress-strain response and concrete fracture; for most meritorious paper in 1986 for a paper on spirally reinforced high strength concrete columns; and most meritorious paper in 1987 for a paper on current research on high strength concrete.

A former member of several technical committees including Committee 318, Standard Building Code, Nilson joined the faculty at Cornell in 1956 and formerly headed the Department of Structural Engineering. His engineering degrees were received from Cornell, Stanford University, and the University of California, Berkeley, Calif.

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Kenneth C. Hover, a Fellow of ACI, is professor of structural engineering at Cornell and has been on the faculty there for eight years.

Currently the chairman of Committee 308, Curing, he also serves on three other technical committees. His research interests have been in the areas of alkali-aggregate reaction, cathodic protection, freeze-thaw damage, and air entrained concrete.

Following graduation from the University of Cincinnati, Hover was a partner and manager of a Cincinnati engineering firm prior to receiving an ACI Fellowship for graduate study, beginning in 1982. After finishing his Ph.D. requirements, he stayed on as a faculty member at Cornell.

ACI STRUCTURAL RESEARCH AWARD

The ACI Structural Research Award Medal is awarded not necessarily annually but at least biennially to the author or authors of a paper published by the Institute in the period subsequent to the last award that describes a notable achievement in research related to structural engineering and which indicates how the research can be used.

CHAPTER ACTIVITIES AWARD TO

RONALD E. VAUGHN

"in recognition of his 20 years of continuous service and exemplary dedication to the ACI Eastern New York Chapter. His regional and national activities have served to broaden the chapter's outreach and extend the knowledge of the individual chapter members."

Ronald E. Vaughn is president of Soil and Material Testing, Inc., Castleton, N.Y., and has been an active member of the Eastern New York chapter for nearly 25 years.

He has been the chapter's secretary-treasurer since 1974 and was honored by the chapter two years ago with a scholarship in his name.

Vaughn is a member of the Chapter Activities Committee and currently serves on ACI Certification Program committees related to field technician and inspector. He is also a former member of Committees 348, Structural Safety, and E 902, Certification.

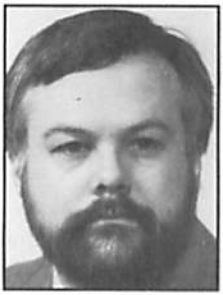
A graduate of the University of Florida, Vaughn was with an engineering firm prior to joining the testing company 21 years ago. He is also an active member of the Empire State Concrete and Aggregate Producers Association.

CHAPTER ACTIVITIES AWARD

The Chapter Activities Award was founded in 1975 to recognize outstanding service in the promotion and development of a chapter or chapters by a member of the American Concrete Institute. Nominations are made by the Chapter Activities Committee, and recommendations are approved by the Board.

The token of this award is a plaque. The award need not be presented each year.

DELMAR L. BLOEM AWARDS FOR DISTINGUISHED SERVICE TO



NICHOLAS J. CARINO
GRANT T. HALVORSEN
DOUGLAS D. LEE
PAUL R. STODOLA

"for noteworthy accomplishment as a technical committee member and chairman."

Nicholas J. Carino, an ACI member for more than 20 years and a Fellow, is a research civil engineer, National Institute of Standards and Technology, Gaithersburg, Md., and has been with that federal agency for 13 years.

He is scheduled to begin a three year term on ACI's Board of Direction following the General Session at the Vancouver convention.

His honors include the Wason Medal for Materials Research on two occasions — in 1986 for a paper on the pulse-echo method of nondestructive testing of concrete and in 1991 for a paper on another aspect of that same subject. Both papers resulted from a NIST research project launched in 1983.

Carino is a member and former chairman of Committee 306, Cold Weather Concreting; is chairman and a former secretary of Committee 228, Nondestructive Testing; and also serves on Committees 231, Properties of Concrete at Early Ages; 437, Strength Evaluation; and 357, Offshore and Marine Concrete Structures. He is a former member of the Educational Activities Committee.

continued

Carino received all three of his engineering degrees at Cornell University and was assistant professor at the University of Texas, Austin, Tex., for five years before joining NIST.

"for dedicated and distinguished service as member, Secretary, and Chairman of Committee 224, Cracking."

Grant T. Halvorsen has been a member of Committee 224 since 1980 and served as its chairman for six years ending in 1991. He is also a member of the Technical Activities Committee.

Now the engineering editor of *Concrete Construction,* a monthly publication of the Aberdeen Group, Halvorsen is also a member or former member of Committees 118, Use of Computers; 231, Properties of Concrete at Early Ages; 362, Parking Structures; 437, Strength Evaluation; and 544, Fiber Reinforcement. A Fellow of ACI, he also serves on the Concrete Research Council.

In 1990, Halvorsen was presented with the Wason Medal for Materials Research for authorship of a paper on code requirements for crack control.

Prior to joining Aberdeen, Halvorsen was associated with a Chicago area engineering firm and was professor of engineering at West Virginia University, Morgantown, W. Va. He was on the faculty at the State University of New York, Buffalo, N. Y., and received engineering degrees from Illinois Institute of Technology and the University of Illinois prior to moving to WVU in 1979.

During his chairmanship of Committee 224, three major documents were revised and work was started on a new report, still being drafted, on joints in concrete structures. Halvorsen was also editor of *ACI Special Publication 104,* Concrete and Concrete Construction, issued in 1987.

"for his technical expertise especially in the field of concrete design and for his leadership in updating the Design Handbook *on a timely basis."*

Douglas D. Lee, a member of ACI for more than 20 years, is the principal of Douglas D. Lee & Associates, structural engineering firm of Fort Worth, Tex.

He has been a member of Committee 340, Design Aids for the ACI Building Codes, since 1980, and served as chairman for six years, during which period the group revised all three of the *Special Publication 17* documents of the design handbook.

A Fellow of the Institute, he is also a member of Committees 355, Anchorage to Concrete, and 441, Reinforced Concrete Columns, and is a former member of Committee 444, Models of Concrete Structures.

Prior to establishing his own practice in 1984, he was associated with consulting firms in New York, Ohio, and Texas. He holds engineering degrees from the University of Texas and Hosun University, Korea, and was one of those instrumental in the formation of ACI's chapter in Korea a few years ago.

continued

"for his contributions to ACI technical committee work."

Paul R. Stodola, an ACI member for 35 years, is the manager of the Civil Engineering Laboratory, American Electric Power Service Corp., Columbus, Ohio.

A Fellow of the Institute, he is a member and past chairman of both Committees 213, Lightweight Aggregates and Lightweight Aggregate Concrete, and 304, Measuring, Mixing, Transporting, and Placing Concrete, and also serves on Committee 211, Proportioning Concrete Mixtures. Stodola is a former member of Committees 212, Chemical Admixtures, and 332, Residential Concrete.

An engineering graduate of Marquette University, he was with the California Department of Water Resources and aggregate and ready-mix suppliers in that state before joining AEP in West Virginia and Ohio in 1975. He was a member of ACI's Northern California chapter and served as its president in 1972.

DELMAR L. BLOEM
DISTINGUISHED SERVICE AWARD

The Institute established a Distinguished Service Award in 1969 to recognize noteworthy work on ACI technical committees. The name of the award was changed to the Delmar L. Bloem Distinguished Service Award in 1972 in honor of the late Delmar Bloem because he had demonstrated, over a period of many years, the characteristics and dedication required for the award. The award is given to a current (or recent) chairman of a technical committee, or under special circumstances, to deserving individuals other than committee chairmen, in recognition of outstanding performance.

Usually one award will be given each year; however, there may be none or more than one in any particular year.

ELECTED FELLOWS

ACI FELLOWS

"A Fellow shall be a person who has made outstanding contributions to the production or use of concrete materials, products, and structures in the areas of education, research, development, design, construction, or management. A Fellow shall have the same rights and privileges as a Member." (see Bylaws, Article II, Section 3.)

The Bylaws provide that Fellows are nominated by a Fellows Nominating Committee and elected by the Board. Nominations to the Fellows Nominating Committee for selection may come from the committee, from chapters, from the International Activities Committee, or by petition by five current ACI members. The final selection takes into account service to ACI or unusual service in the field of concrete.

Daniel P. Abrams

The following have been elected Fellows of the American Concrete Institute:

Kenneth B. Bondy

Theodore W. Bremner

Ramon L. Carrasquillo

James R. Clifton

Raymond A. DiPasquale

Per Fidjestøl

Dennis W. Graber

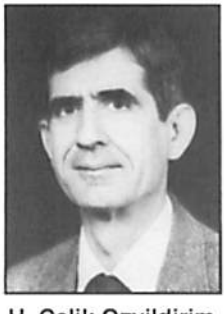
Herbert C. Hale, Jr.

Steven H. Kosmatka

David G. Manning

W. Calvin McCall

Asher Müller



H. Celik Ozyildirim

Michel Pigeon

Steven A. Ragan

Sami H. Rizkalla

Wadi S. Rumman

John E. Sadler

Billy M. Scott

Philip T. Seabrook

Robert J. Smith

CHAPTER AWARDS
CITATIONS OF EXCELLENCE

These Awards are given to those Chapters that have achieved excellence in chapter activities and have made significant contributions to ACI activities.

Consideration is given in areas of educational and certification activities; membership; meetings; local chapter awards programs; public relations; newsletters; student scholarships and/or the Sponsor-a-Student program.

Outstanding Chapters

Argentina
Arkansas
Arizona
Carolinas
Delaware Valley
Florida Suncoast
Intermountain
Louisiana
Maharashtra India
Mexico Capital
Michigan
Nebraska
New Jersey
New Mexico
Northern California and Western Nevada
Oklahoma
Peru
Pittsburgh Area
Rocky Mountain
San Diego International
Southern California
Virginia
Wisconsin

Excellent Chapters

Eastern New York
Georgia
Illinois
Kansas
Maryland
National Capital

CERTIFICATES OF MEMBERSHIP APPRECIATION

The American Concrete Institute expresses its appreciation to the following Individual and Organizational Members, who have been valued members of the Institute for 50 years. *Your support through the years has contributed to the success of ACI.*

Cretex Companies, Inc.

Carlos S. Ospina

CONCRETE RESEARCH COUNCIL ROBERT E. PHILLEO AWARD TO

DAVID C. STARK

"in recognition for outstanding contributions to research in the field of concrete durability."

David C. Stark, is senior principal scientist, Construction Technology Laboratories, Inc., Skokie, Ill., and has been with CTL for more than 30 years.

In 1988, he received ACI's Arthur R. Anderson Award for "technical leadership in improving the durability of concrete by petrographic studies of aggregate reaction, freeze-thaw deterioration, and work of corrosion of embedded materials."

Stark, a Fellow of the Institute, is a member and former chairman of Committee 222, Corrosion of Metals in Concrete, and a member of Committee 221, Aggregates.

A geology graduate of the University of Wisconsin, he is also an active member of ASTM, the Transportation Research Board, and the American Association of State Highway and Transportation Officials.

THE ROBERT E. PHILLEO AWARD

The Robert E. Philleo Award of the Concrete Research Council, American Concrete Institute, established in 1992, is given in recognition of a person, persons, or an organization for outstanding research in the concrete materials field, or for outstanding contributions to the advancement of concrete technology through application of the results of concrete materials research.

The award is a plaque suitably inscribed with the name of the recipient and the citation.

It is given in memory of an Institute past president and Honorary Member who was also chairman of the Concrete Materials Research Council, now the Concrete Research Council.

REINFORCED CONCRETE RESEARCH COUNCIL ARTHUR J. BOASE AWARD TO

JAMES O. JIRSA

"for significant contributions to the detailing of straight, lapped, and hooked reinforcement through research and the development of design recommendations."

James O. Jirsa is professor of engineering at the University of Texas, Austin, Tex., and a former ACI Board of Direction member and chairman of the Technical Activities Committee.

A faculty member at Texas since 1972, he currently holds the Janet S. Cockrell Centennial Chair in Engineering and was formerly the Phil M. Ferguson Professor of Engineering and director of the Ferguson Structural Laboratory at Austin. A Fellow of ACI, he has been an Institute member of nearly 30 years.

A member of TAC for about eight years, Jirsa was its chairman for a three year period starting in 1985. He has also served on Committee 318, Standard Building Code, and is a past chairman of both Committees 352, Joints and Connections, and 408, Bond and Development of Reinforcement.

His awards include ACI's Alfred E. Lindau Award in 1986 for "outstanding contributions to the understanding of behavior and development of design practices" for reinforced bar hooks, splices, anchorage, and beam-column joints; the Raymond C. Reese Award in both 1977 and 1979 for authorship of papers on anchorage and splices; the Wason Medal for Most Meritorious Paper in 1979 for a paper on hooked bar anchorages; and a Delmar L. Bloem Distinguished Service Award in 1990 for contributions to the Institute's technical activities.

Jirsa, who holds engineering degrees from the universities of Nebraska and Illinois, was on the faculty at Rice University, Houston, Tex., for six years before moving to Austin in 1972.

ARTHUR J. BOASE AWARD

The Arthur J. Boase Award, presented by the Reinforced Concrete Research Council, was first awarded in 1971 in recognition for outstanding activities and achievements in the reinforced concrete field.

The award consists of a certificate suitably inscribed with the name of the recipient and circumstances of the award.

PORTLAND CEMENT ASSOCIATION CONCRETE BRIDGE AWARDS

The Concrete Bridge Awards competition is sponsored biennially by the Portland Cement Association and the presentation of the honors are made at the Awards Breakfast.

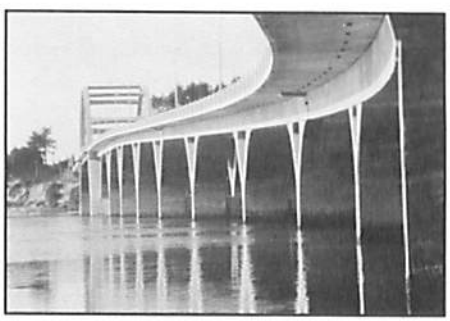
The 1992 contest reflects "the swift evolution of bridge design in an era of strong community participation and firm, if mandatory, commitment to environmentally sensitive construction."

Eight winners were selected on the basis of engineering innovation, economy, and environmental treatment. There were no rankings or categorization; cast-in-place or precast design for projects completed between September 1990 and September 1992 were eligible for consideration.

Judges for the 1992 event were John Ahlskog, chief of bridge review and design; Federal Highway Administration, Washington, D. C.; ACI member Roger Dorton, manager of the structural office, Ontario Ministry of Transportation, Downsview, Ontario, Canada; and Chellon L. Loveall, assistant executive director, Bureau of Planning and Development, Tennessee Department of Transportation. Basile G. Rabbat, PCA manager of codes and standards and coordinator of the program will present the honors.

The winning bridges and the firms/agencies which submitted the entries were:

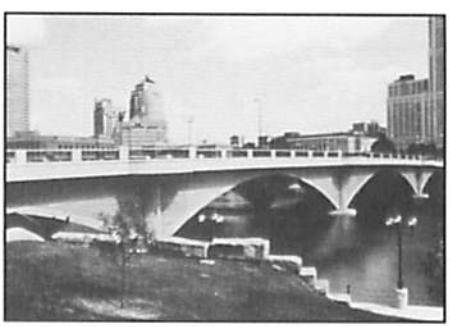
Alsea Bay Bridge Approaches, Waldport, Oregon



Built in conjunction with a replacement of a 1930s era structure, the approaches to the new Alsea Bay span incorporate cast-in-place, post-tensioned concrete box girders and Y-legged (delta) piers. The architectural treatment for this four lane, 2900 ft structure was similar to its predecessor, a landmark on the central Oregon coast.

Judges' comment: "Y-shaped piers and structural form help recapture spirit of predecessor approaches."

The Discovery Bridge, Broad Street Replacement Bridge, Columbus, Ohio

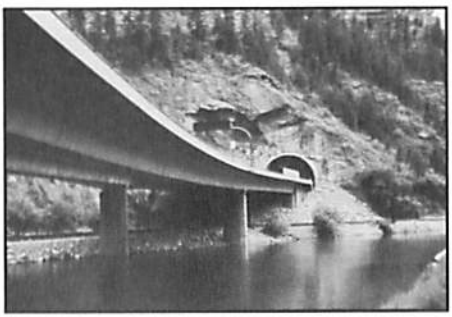


A replacement for the old Broad Street bridge in a historic section of Ohio's capital city, this five span structure uses arched girders which act compositely with a concrete deck. The result is a design with old world motifs and new world construction. The 670 ft span of post-tensioned, cast-in-place concrete with architectural treatments is in an area of land-

scaped plazas and pedestrian areas along the banks of the Scioto River. Historic preservation agencies and community interest task forces were involved in the planning and design phases.

Judges' comment: "Illustrates appropriate application of architectural treatment. Appealing use of the arch shape in a contemporary fashion in an urban setting."

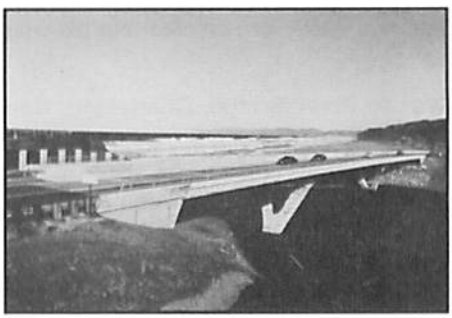
Hanging Lake Viaduct, Glenwood Canyon, Colorado



Interstate 70's newest viaduct was built with long spans, strict construction protocol, and extreme care to reduce the impact on a steep, narrow, and highly scenic mountain environment. A twin structure of precast segmental concrete box girder construction, it was erected with the balanced cantilever method using temporary straddle bents. The 8400 ft, 42 span viaduct over the Colorado River completes one of the final links in the original national interstate highway masterplan. Years of review, environmental impact assessments, and design input from public and governmental groups took place prior to construction.

Judges' comment: "A prime transportation component that enhances drivers' perception of the scale and beauty of its environment."

Pescadero Creek Bridge, San Mateo County, California



Located on scenic California Highway 1, this 380 ft span crosses the mouth of a waterway as it flows into the Pacific Ocean. The three span, prestressed concrete box girder structure features simple lines and smooth transitions between a parabolically deepening deck, Y-shaped columns, and long overhangs. The columns slope inward and upward towards the spans to provide an esthetically open structure and wider waterway.

Judges' comment: "Well balanced spans with elegant and unusual open piers."

Rosalind Avenue Bridge, Orlando, Florida

This 270 ft structure spans Lake Lucerne and is part of the main artery into downtown Orlando. It incorporates precast, prestressed, and transversely post-tensioned hollow core planks and extensive architectural concrete treatments and landscape effects.

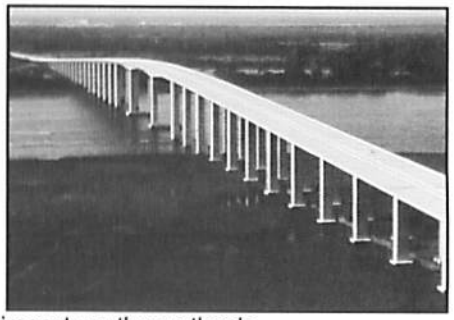
Judges' comment: "Good treatment of short span construction in an urban environment. Detailing fits human scale as well as automobile scale."

Shelby Creek Bridge, Pike County, Kentucky

Crossing a scenic valley along U. S. Route 23, this five span, 981 ft structure comprises post-tensioned, segmental I-beams that are spliced to achieve spans of more than 200 ft. Pretensioned for handling and lifting forces and continuously post-tensioned for service loads, the 8 1/2 ft deep beams are located in seven lines at 12 1/2 ft on center. Each line consists of nine equal segments 108 ft long, resting on concrete piers constructed of 3 by 12 ft columns and struts at 40 ft intervals.

Judges' comment: "Extends the range of precast, prestressed concrete girders. Appears easily constructed and executed."

Wando River Bridge, Charleston, South Carolina



With an overall length of 7900 ft, this is a twin box girder span of post-tensioned, precast segmental concrete construction over environmentally sensitive wetlands. The 400 ft main span matches a length record for precast segmental concrete design and the bridge itself is the State of South Carolina's first of this type of construction. Erection was by conventional cantilever and progressive span-by-span techniques to minimize impact on the wetlands.

Judges' comment: "Economical construction for sensitive area. Clean cut with continuity of approach and navigational spans."

West Seattle Swing Bridge, Seattle, Washington

Reportedly the only one of its type in the world, this is a double-leaf concrete span over the west waterway of the Duwamish River between Seattle's Harbor Island and West Seattle. Each of the 7500 ton, 413 ft leaves is a cast-in-place, concrete box girder resting on a pier with a 9 ft diameter piston. This piston, when activated, rises one in. and rotates 45 deg to accommodate local traffic. A concrete box girder span above the swing bridge accommodates through traffic to and from the island.

Judges' comment: "Mechanically innovative. Matches well with the adjacent structure and keeps a graceful profile in movement."

PROJECT CREDITS

Alsea Bay Bridge — Oregon Department of Transportation, owner; HNTB Corp., engineer; General Construction Co., contractor; Morse Brothers, concrete supplier.

Discovery Bridge — Franklin County, Ohio, Engineer, owner; Burgess & Niple, Ltd., and Leonhardt, Andra und Partner, engineers; Janssen & Spaans Engineering, Inc., construction engineer; C. J. Mahan Construction Co., contractor; H2L2, architect; Arrow Concrete Co., concrete supplier.

Hanging Lake Viaduct — Colorado Department of Transportation, owner; Figg Engineering Group, engineer; Flatiron Structures Co. and Prescon Corp., contractors.

Pescadero Creek Bridge — California Department of Transportation (CALTRANS)/Office of Structures, owner and engineer; Granite Construction, contractor; RMC Lonestar, concrete supplier.

Rosalind Avenue Bridge — City of Orlando, owner; HNTB and Lochrane Engineering, engineers; Hubbard Construction, contractors; Southern Prestressed, Inc., and Durn Stress, suppliers.

Shelby Creek Bridge — Commonwealth of Kentucky Transportation Cabinet, owner; American Engineering Co. and Janssen & Spaans Engineering, engineers; Bush & Burchett, Inc., contractor; Prestress Services of Kentucky and Dywidag Systems International, suppliers.

Wando River Bridge — South Carolina Department of Highways and Public Transportation, owner; Figg Engineering Group, engineer; T. L. James and Morrison Knudsen Corp., contractors and concrete suppliers.

West Seattle Swing Bridge — Seattle Engineering Department, owner; Andersen Bjornstad Kane Jacobs, Inc., Tudor Engineering Co., and Sverdrup Corp., team engineers; Parsons Brinckerhoff Quade & Douglas, Inc., engineer/architect; Kiewit-Global, contractor; Lone Star Northwest, concrete supplier.

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Congratulations
1993
Awardees

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