



international

**A M E R I C A N
C O N C R E T E
I N S T I T U T E**

1997

Annual Awards

"progress through knowledge"

**APRIL 10, 1997
SPRING CONVENTION
THE WESTIN HOTEL SEATTLE
SEATTLE, WASHINGTON**

AWARDS

Honorary Memberships

W. Burr Bennett
Richard D. Gaynor
Robert Park

Arthur R. Anderson Award

M.J. Nigel Priestley

Joe W. Kelly Award

James O. Jirsa

Henry L. Kennedy Award

Merlyn Isaak

Alfred E. Lindau Award

Bruno Thürlimann

Henry C. Turner Award

Anthony E. Fiorato

Charles S. Whitney Medal

Hibernia Management and Development Co., Ltd.
St. John's, Newfoundland, Canada

Cedric Willson Award

V. Mohan Malhotra

Wason Medal for Materials Research

Nemkumar Banthia
Jean-Francois Trottier

Wason Medal for Most Meritorious Paper

M.J. Nigel Priestley

ACI Construction Practice Award

Jerome H. Ford

ACI Structural Research Award

William C. Stone
Geraldine S. Cheok
John F. Stanton

Maurice P. van Buren Structural Engineering Award

Arthur J. O'Leary

Chapter Activities Award

Luke M. Snell

Delmar L. Bloem Award for Distinguished Service

Terence C. Holland
Basile G. Rabbat
Harold R. Sandberg

Fellows

Chapter Awards - Citations of Excellence

Membership Citations

Concrete Research Council

Robert E. Philleo Award

John M. Scanlon

Reinforced Concrete Research Council

Arthur J. Boase Award

Robert F. Mast



HONORARY MEMBERSHIP TO

W. BURR BENNETT

"for his numerous contributions to the development and promotion of the prestressed concrete industry worldwide and for his dedicated service to the Institute as a member, and as ACI President"

W. Burr Bennett was president of the Institute in 1988 and has been a member for over 40 years. He heads W. Burr Bennett, Ltd., a Northbrook, IL, management consulting firm that he founded in 1979.

Prior to establishing his own company, he served as executive vice president of the Prestressed Concrete Institute for 11 years. He also served as executive director of the American Society of Concrete Construction until stepping down from that position about three years ago.

Bennett has served on several Institute technical committees and chaired Committee 423, Prestressed Concrete, for several years. During his chairmanship, the committee drafted "Tentative Recommendations for the Design of Prestressed Concrete," the first authoritative guide of that material. He is also a former chairman of ACI's Planning Committee and also served on the Financial Advisory Committee.

A Fellow of ACI, he is an engineering graduate of Syracuse University and was associated with a New York precast firm prior to joining the Portland Cement Association in 1956 as a structural engineer. Bennett advanced to manager of the Structural Bureau and then to director of PCA's Engineering Services Division before moving to PCI in 1968.

In 1981, he served as the Raymond E. Davis lecturer at the fall convention in Quebec, Canada; his talk was entitled "This Business of Precast Concrete." His awards include the Arthur J. Boase Award of the Reinforced Concrete Research Council in 1983 for contributions to and achievements in the field of reinforced concrete.

HONORARY MEMBERSHIP

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



HONORARY MEMBERSHIP TO

RICHARD D. GAYNOR

"in recognition of his leadership as Executive Vice President, National Aggregates Association and National Ready Mixed Concrete Association last year after nearly 42 years with the two associations, based in Silver Springs, MD. He is now a consultant, specializing in concrete construction and materials.

Richard D. Gaynor retired as executive vice president of the National Aggregates Association and the National Ready Mixed Concrete Association last year after nearly 42 years with the two associations, based in Silver Springs, MD. He is now a consultant, specializing in concrete construction and materials.

At the 1994 convention in San Francisco, Gaynor received ACI's Henry L. Kennedy Award for his "outstanding technical contributions" to the understanding of cement, admixtures, aggregates and their performance in concrete mixtures and for his "untiring services" to the Institute and its committees.

Gaynor, in 1978, received the Arthur R. Anderson Award for contributions "to the understanding of inter-relationship between aggregate properties and concrete properties" and his "advocacy of practical applications of statistical methods." He is also a former Board of Direction and Technical Activities Committee member.

Gaynor is a former member of six different ACI committees, including Committee 318; he served as chairman and member of 318's Subcommittee A, Chapters 1-6, for nearly 20 years before retiring from the committee last year.

A long-time member of ASTM, he received that society's Award of Merit in 1978; the P. H. Bates Award in 1993 for an outstanding paper on cement and concrete strength; the Frank E. Richard Award, also in 1993, for contributions in the field of concrete and concrete aggregates; the Sanford E. Thompson Award in both 1963 and 1982 for outstanding papers for Committee C 9; the Robert J. Pointer Award for dedicated service to the society; and is an honorary member of both Committees C 1 and C 9.

A native of Mobile, AL, he joined the NRMCA and NAA (then known as the National Sand and Gravel Association) in 1954 after receiving engineering degrees from the Universities of Alabama and Maryland. He rose through the ranks to become director of engineering in 1971, vice president of engineering and research in 1975, and then executive vice president in 1984.

Gaynor has also been an active member of the Transportation Research Board, the American Society of Civil Engineers, the National Cooperative Research Program, AFTRE Aggregates Foundation and Center for Aggregate Research, the Civil Engineering Research Foundation, and RMC 2000 which recently honored him with its "Visionary Leadership Award."

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HONORARY MEMBERSHIP
TO
ROBERT PARK

"In recognition of his worldwide contributions to the understanding of reinforced and prestressed concrete, particularly in regards to its resistance to earthquakes"

Robert Park is professor of civil engineering and deputy vice chancellor of the University of Canterbury, Christchurch, New Zealand, and has been on the faculty there for 36 years.

His research, focused on the behavior of reinforced and prestressed concrete structures and applications with emphasis on design for earthquake resistance, has led to the authorship of two books, seven invited chapters in reference materials, over 240 technical papers, and 17 prestigious awards from New Zealand and international technical societies and institutions. His books include "Reinforced Concrete Structures," coauthored with Professor Thomas Paulay, published in 1975 by John Wiley and Sons, New York, and now a standard text book in worldwide use.

A Fellow of ACI, he is a member of Committee 368, Earthquake Resisting Elements and Systems, and a former member of Committees 341, Earthquake Resistant Bridges; 352, Joints and Connections; 441, Reinforced Concrete Columns; 442, Response to Lateral Forces; and 428, Inelastic Behavior.

In both 1984 and 1989, he and Professor M. J. Nigel Priestley received ACI's Structural Research Awards for coauthorship of technical papers concerning ductility of bridge columns under seismic loading and for stress-strain behavior of concrete confined by overlapping hoops.

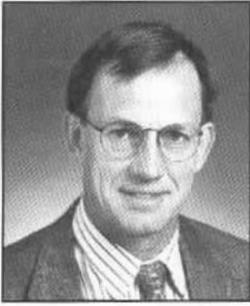
At the San Francisco, Calif., convention in 1994, Park, on behalf of Canterbury, accepted ACI's Charles S. Whitney Medal for Engineering Development for "a tradition of leadership and excellence" in seismic research and designing with structural concrete in earthquake zones.

Park is a former president of the New Zealand Prestressed Concrete Institute and the New Zealand National Society for Earthquake Engineering and has been extensively involved in the development of codes and standards for building materials in that nation.

In addition to his ACI awards, past honors received by Professor Park include the Moisseiff and T. Y. Lin awards of the American Society of Civil Engineers and the Martin P. Korn Award of the Precast/Prestressed Concrete Institute. In 1995 on the occasion of the Queen's Birthday, he received the honor of Officer of the Civil Division of the Most Excellent Order of the British Empire "in recognition of his services to civil engineering."

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**ARTHUR R. ANDERSON
AWARD AND**

**WASON MEDAL FOR MOST MERITORIOUS
PAPER TO**

M.J. NIGEL PRIESTLEY

Anderson Award: "for contributions to the development of a new philosophy of seismic design based on mathematical analysis and large-scale experimental research, and its application to new concrete construction, precast concrete structures, and the retrofit of existing concrete bridges."

Wason Medal: "for his paper ("Myths and Fallacies in Earthquake Engineering -- Conflicts Between Design and Reality," published in Special Publication 151), examining aspects of the current philosophy and procedures of seismic analysis and design."

M. J. Nigel Priestley is professor of structural engineering, University of California, San Diego, CA, and has been on the faculty there for 10 years.

A Fellow of ACI, he has been extensively involved in seismic research for more than 30 years. Prior to moving to San Diego, he was on the faculty at the University of Canterbury, New Zealand, was with the New Zealand Ministry of Works and Development, and was a distinguished research fellow of the New Zealand Earthquake Commission.

In both 1989 and 1984, he was a recipient of the Institute's Structural Research Award for coauthorship of technical papers on ductility of concrete columns under seismic loading and stress-strain behavior of concrete confined by overlapping hoops. In both cases, the award was shared with Canterbury's Professor Robert Park who was accorded Honorary Membership at the Seattle convention.

At the Denver, CO, convention in March 1996, Priestley, acting on behalf of the University of California, accepted ACI's Charles S. Whitney Medal for "state-of-the-art research on the design, strengthening, and repair of concrete bridges and buildings in seismic regions." Much of the research at the Charles Lee Powell Laboratories in San Diego in recent months resulted from studies of the 1994 earthquake in the Northridge, California region.

He currently serves on an Innovative Technology Group, Technical Activities Committee, and is a former member of Committees 531, Concrete Masonry, and 344, Circular Prestressed Tanks.

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.

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.



ROGER H. CORBETTA CONCRETE CONSTRUCTOR AWARD TO

C. RAYMOND HAYS

"In recognition of enduring contributions to quality and safety in concrete construction."

C. Raymond Hays, Birmingham, AL, recently retired after more than 40 years in the construction industry.

A former member of ACI's Board of Direction, he now serves on the Construction Liaison Committee, the TAC High Performance Concrete Committee, and Committees 121, Quality Assurance; 318, Standard Building Code; 351, Foundations for Equipment and Machinery; and 355, Anchorage.

He has also served on the Technical Activities Committee, the Publications Committee, and the Chapter Activities Committee.

For many years, he was manager of quality assurance, Rust Engineering Co., Birmingham, which he joined in 1956. An ACI member since 1967, he holds engineering degrees from the University of Alabama at both Tuscaloosa and Birmingham.

Hays is a Fellow of ACI.

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**

JAMES O. JIRSA

"In recognition of a creative career as a teacher, researcher, and author, particularly in the fields of bond strength and the seismic design of concrete structures and the introduction of this knowledge into the classroom through teaching and supervising students."

James O. Jirsa, former ACI Board of Direction member and chairman of the Technical Activities Committee, holds the Janet S. Cockrell Centennial Chair in Engineering at the University of Texas, Austin, TX.

A Fellow of the Institute and a Texas faculty member for about 25 years, Jirsa is a member of Committee 318, Standard Building Code, and chaired its subcommittee on two-way slabs during the 1995 code cycle, and also serves on Committee 408, Bond and Development of Reinforcement. He is a former member of Committees 352, Joints and Connections; 369, Seismic Rehabilitation; and 421, Design of Reinforced Slabs.

On three occasions, Jirsa has been the recipient of the Institute's Structural Research Award for authorship of an outstanding technical paper resulting from research related to structural engineering. These were in 1995 for a paper on epoxy-coated reinforced bar splices; in 1979 for a paper on testing of development length and splices; and in 1977 for a paper on bar anchorages.

His other ACI honors have included the Delmar L. Bloem Distinguished Service Award in 1990, the Wason Medal for Most Meritorious Paper in 1977, and the Alfred E. Lindau Award in 1986 for "outstanding contributions" in the development of design practices for reinforcing bar hooks, splices, anchorage, and beam-column joints.

Jirsa, who holds engineering degrees from the universities of Nebraska and Illinois, was on the faculty at Nebraska and Rice University, Houston, before moving to Austin in 1972. He was named to the Phil M. Ferguson Professorship at Austin in 1984 and also served as director of the Ferguson Structural Laboratory there before receiving the Cockrell endowed chair in 1988.

He currently serves as chairman of RCRC, a subsidiary of the American Society of Civil Engineers.

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

MERLYN ISAAK

"in recognition of outstanding service in technical and administrative committee work for the Institute, and for his leadership as chairman of the ACI Certification Programs Committee in developing, maintaining and updating programs for the certification of persons involved in or interested in the field of concrete."

Merlyn Isaak, currently a member of ACI's Board of Direction, is senior vice president, Signet Testing Labs, Hayward, CA, and a former chairman of the Certification Programs Committee. He served four years as chairman of that committee and remains as a member.

A Fellow and long-time member of the Northern California-Western Nevada chapter, he was a consultant in private practice prior to joining Signet Testing about two years ago.

He is also a member of the Chapter Activities Committee, the Financial Advisory Committee, the Concrete Research Council, Committee 506, Shotcreting, Committee C 630, Inspector Certification, and formerly served on Committee 311, Inspection of Concrete.

Isaak, an ACI member for about 35 years and a former president of the local chapter, established his own consulting practice in Los Gatos, Calif., in 1990 after more than 25 years with Testing Engineers, Inc., formerly one of Northern California's largest materials engineering, testing, and inspection firms. This service with Testing Engineers included eight years as board chairman, president, and chief executive officer.

A native of South Dakota, he is an engineering graduate of South Dakota State University and is a member of several professional organizations. Issak is an honorary member of the American Council of Independent Laboratories, a past chairman of the Inspection Practices Committee of the Structural Engineers Association of California, and former president of California's Board of Architectural Examiners.

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 basis for selection of awardees is 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
BRUNO THÜRLIMANN

"for pioneering and continuing leadership in the practical application of plasticity theory to the design of structural concrete."

Bruno Thürlimann is an Honorary Member of the Institute and professor emeritus of structural engineering, Swiss Federal Institute of Technology, Zurich, Switzerland.

A member of ACI for more than 30 years, he has been on the faculty at the technical institute since 1960 and was accorded emeritus status in 1990.

At the 1983 convention in Los Angeles, Calif., Thürlimann was presented with Honorary Membership in ACI "in recognition of his world-renowned achievements and eminence as a scholar, researcher, and contributor to reinforced and prestressed concrete engineering." He was also the Phil M. Ferguson lecturer at the 1990 fall meeting in Philadelphia, PA.

A former president of the International Association for Bridge and Structural Engineering, he is internationally known for his research and papers on such topics as partial prestressing and ultimate strength of reinforced and prestressed concrete. Much of this research has been incorporated into European and Swiss specifications and model codes.

A Fellow of ACI, he is a member of Committee 445, Shear and Torsion, and a former member of Committee 334, Shell Design and Construction.

As a consultant, he has participated in the design of numerous major projects including the CN Tower in Toronto, Canada, the world's tallest free-standing structure; the Gateway Bridge in Australia, the longest prestressed concrete girder span; and Switzerland's Ruppoldingen Bridge, the world's longest prestressed concrete girder railway span.

Before joining the faculty at Zurich, he was a research associate at Brown University and taught at Lehigh University for seven years.

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

ANTHONY E. FIORATO

"for contributions to concrete technology through development of innovations and improvements in reinforced concrete design procedures for seismic and high-performance applications, as well as dedicated service to the Institute as an active member of both technical and administrative committees."

Anthony E. Fiorato, a former member of ACI's Board of Direction, is currently vice president of research and technical services, Portland Cement Association, Skokie, IL.

A Fellow of the Institute, he has been involved in ACI committee activities for nearly 25 years. He is now a trustee of the Concrete Research and Education Foundation (ConREF) and also serves on the Financial Advisory Committee and TAC's High Performance Concrete Committee.

He is a former member of the Educational Activities Committee; a former chairman of Committee 532, Concrete Masonry; past secretary of Committee 357, Offshore Concrete Structures; and a former member of the Publications Committee, the Concrete Materials Research Council, the Convention Committee, Planning Committee, and Committees 122, Energy Conservation; 445, Shear and Torsion; and 546, Repair.

Fiorato joined PCA in 1973 and has held a number of management positions with the association and its subsidiary, Construction Technology Laboratories, Inc. He was named to his current post in PCA in 1989 and oversees the association's research and development activities and programs.

A member of ASTM and its C-1 and C-9 committees on concrete and cement, the Precast/Prestressed Concrete Institute, and a number of other professional organizations, Fiorato holds an undergraduate degree in civil engineering from Drexel University, Philadelphia, and graduate degrees from the University of Illinois.

At PCA, he oversees the association's program of support to the concrete construction industry by providing technical data on cement chemistry, concrete and masonry materials, environmental and waste management technology, structural engineering, fire/thermal technology, transportation systems, and related fields. He has authored over 50 technical publications on concrete technology, high strength concrete, lightweight concrete, fire and thermal performance of concrete, and other subjects.

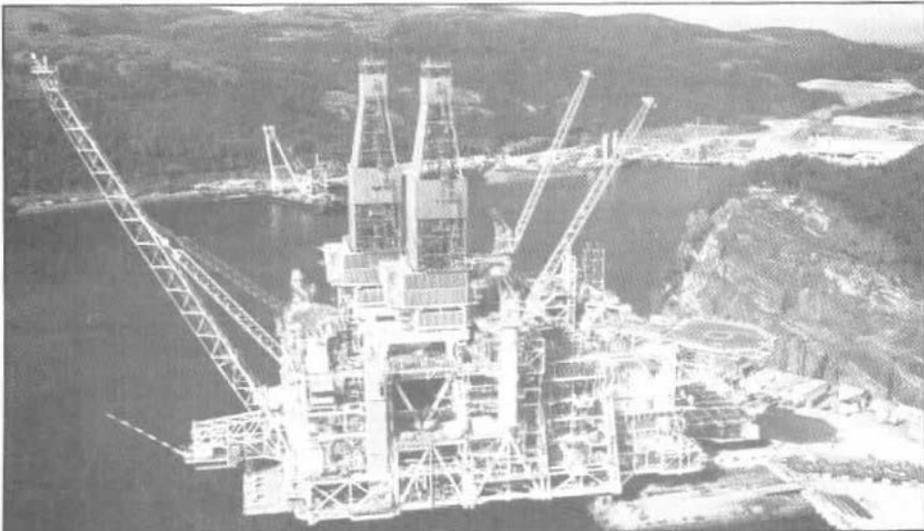
HENRY C. TURNER MEDAL

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 FOR ENGINEERING DEVELOPMENT TO

HIBERNIA MANAGEMENT AND DEVELOPMENT CO., LTD.



The completed topsides facilities on the pier at Bult Arm. The drill will be installed on the Grand Banks in about 80 m of water, 315 km southeast of St. John's, Newfoundland, in 1997 (Photo courtesy Hibernia Management and Development Co., Ltd.)

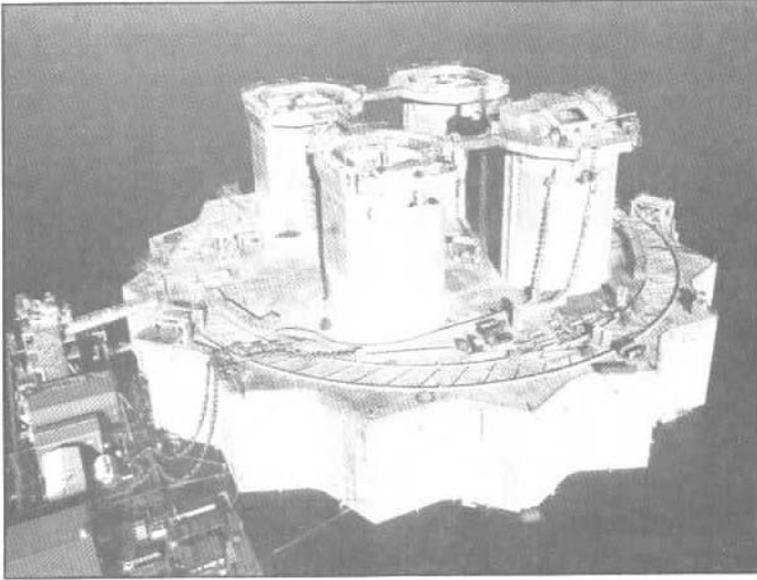
"In recognition of the extensive application of state-of-the-art technologies in materials, design and construction with high-performance concrete for the Hibernia offshore concrete platform."

A seven-year construction undertaking, the Hibernia offshore concrete platform in the Atlantic waters off the coast of Canada is the first such facility designed to resist the impact of icebergs.

Construction of the concrete substructure was accomplished at Bult Arm, Trinity Bay, Newfoundland, and essentially completed in late 1996. The platform is scheduled to be installed on the Grand Banks in 80 m of water, 315 km southeast of St. John's, Newfoundland, in 1997.

The concrete substructure consists of a lower caisson and four shafts with an overall height of 111 m. The lower caisson, with a diameter of 106 m, rises 85 m from the sea floor. The caisson is designed to resist all environmental forces, including iceberg impact, while providing storage of up to 1.3 million barrels of produced oil. The concrete shafts, acting together with the caisson, will support 55,000 tonnes of load during operation.

The structure contains 165,000 m³ of pumped concrete having a one-year design strength of 69 MPa. The actual produced concrete after pumping had a 28 day cylinder strength of 80 MPa, making it the largest single use of high-performance concrete in North America and also set a strength record for offshore concrete platforms. Other firsts with respect to offshore platforms and other applications of high performance concrete included the largest single use of air-entrained (5 +/- 1 percent) high strength concrete, the first use of high yield stress (500 MPa), high elongation (min. 12 percent) reinforcing steel (110,000 tonnes) in Canada, the largest single use (136,000 m³) of reduced density (2200 kg/m³) concrete accomplished by blending normal density and structural lightweight coarse aggregates, the largest use (2.2 million) of T-headed bars for shear



This photo at the Hibernia site is of the completed gravity base structure with the four shafts. The full height is 111 m, about two-thirds of which is underwater. The track around the outside of the base will be used during the offshore solid ballast installation operations. (Photo courtesy Hibernia Management and Development Co., Ltd.)

reinforcement and concrete confinement, the largest single use of dyform strand for post-tensioning, the first extensive use of vacuum grouting for long (175 m) ducts, the largest single use (910,000) of mechanical couplers to avoid lap splicing of large (35 mm) bars where the coupled assembly had an elongation requirement comparable to that of an uncoupled bar, extensive use of reduced stiffness analysis in the outer wall design, and the slipforming of complex shapes with high (611 kg/m³ average) densities of reinforcing steel.

The Hibernia Management and Development Co., Ltd., St. John's, Newfoundland, was formed to oversee the engineering and construction of the production system, field drilling, and field production on behalf of the Hibernia owners. The joint owners are: Mobil Oil Canada Properties, Chevron Canada Resources, Petro-Canada Resources, Murphy Oil Co., Ltd., Norsk Hydro, and the Canada Hibernia Holding Corp. The primary concrete structure contractors include Norwegian Contractors of Newfoundland/Peter Kiewit Sons, a joint venture, for construction and Doris Development Canada for design and engineering.

At the Awards Breakfast, David C. Luther, engineering manager on the project, is scheduled to accept the award on behalf of Hibernia Management and Development,

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.



CEDRIC WILLSON AWARD TO

V. MOHAN MALHOTRA

"for notable contributions in both laboratory and field testing of lightweight aggregate concretes to determine their durability when used in severe exposure environments."

V. Mohan Malhotra is an Honorary Member of the Institute and has received numerous awards from ACI and other international professional organizations. He heads the Construction Materials Section, Canada Centre for Mineral and Energy Technology (CANMET), Ottawa, and has been with that governmental agency since 1962.

Probably the youngest man ever accorded Honorary Membership in ACI, he received this recognition in 1986 for "enhancing the stature of the Institute and its technical reputation, especially through international, chapter, and specialty conference activities, over many years."

At the Denver, CO, convention in March 1996, he was presented with the Robert E. Philleo Award of ACI's Concrete Research Council for "outstanding contributions to the advancement of concrete technology through application of the results of concrete materials research." Other past ACI honors include the Henry C. Turner Medal in 1983 for "outstanding services"; the Henry L. Kennedy Award in 1978 for activities in organizing symposia and conferences; the Chapter Activities Award in 1977 for "outstanding contributions" to chapter activities; a Delmar L. Bloem Distinguished Service Award in 1983 for contributions in technical activities; and a Wason Medal for Materials Research for authorship of a technical paper on nondestructive testing. He and other CANMET officials also shared the Charles S. Whitney Award in 1990 for that agency's "long-term contribution to research of specialty materials...to enhance the use of concrete as a structural material."

In 1993, ACI also established a fellowship in his name for graduate studies in materials science research. It is the only Institute scholarship earmarked specifically for research studies. A former member of both the Board of Direction and the Technical Activities Committee, he now serves on the International Activities Committee, the TAC High Performance Committee, the ConREF Organizing Council, and seven technical committees.

A member of ACI for more than 35 years, he joined CANMET after receiving engineering degrees from the University of Delhi, India, and the University of Western Australia, Perth, and employment with consulting firms in both India and Australia.

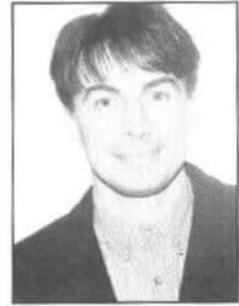
CEDRIC WILLSON AWARD

The Cedric Willson Award was established by the Northeast Texas Chapter and approved by the ACI Board of Direction in 1976 in recognition of Cedric Willson's many contributions in the fields of lightweight aggregate, lightweight concrete, and lightweight concrete masonry. The award is given for outstanding contributions to one or more of these fields. A person, firm, or organization is eligible for the award.

The token of the award is a plaque, and the award need not be given annually.



WASON MEDAL FOR
MATERIALS RESEARCH
TO
**NEMKUMAR BANTHIA
AND
JEAN-FRANCOIS TROTTIER**



"for their papers ('Test Methods for Flexural Toughness Characterization of Fiber Reinforced Concrete, Some Concerns and a Proposition,' Part I, and 'Concrete Reinforced with Deformed Steel Fibers: Toughness Characterization,' Part II, January/February and March/April 1995, ACI Materials Journal) that discuss alternative techniques for characterizing the toughness of fiber reinforced concrete, and evaluating the effects of deformed steel fibers on the toughness of such concretes."

Nemkumar Banthia is associate professor of engineering at the University of British Columbia, Vancouver, Canada, and has been on the faculty there for six years.

He is a member of Committees 440, Fiber Reinforced Plastic Reinforcement; 446, Fracture Mechanics; 506, Shotcreting; 544, Fiber Reinforced Concrete; and 549, Ferrocement. He has conducted research and written extensively on fiber reinforced concrete.

A member of ACI's British Columbia chapter, he has been presented with the chapter's W. G. Hislop Award for outstanding contributions on four occasions. He was on the faculty at Laval University, Quebec, Canada, before moving to British Columbia.

Jean-Francois Trottier is assistant professor at the Technical University of Nova Scotia, Halifax, Canada.

A faculty member there for four years, he is a member of Committee 544, Fiber Reinforced Concrete. He received a Ph.D. in civil engineering from Laval University, Quebec City, and has specialized in research on static and impact behavior of fiber reinforced cement-based materials.

WASON MEDAL FOR MATERIALS RESEARCH

The Wason Medal for Materials Research was founded in 1971 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.



ACI CONSTRUCTION PRACTICE AWARD TO

JEROME H. FORD

"for his paper which describes in detail proper techniques for the forming of footings, walls and beams."

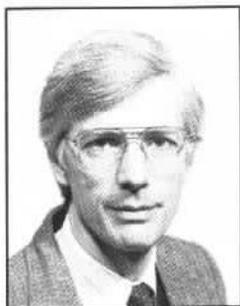
Jerome H. Ford, an ACI member for more than 20 years, is director of technical services, Symons Corp., Des Plaines, IL, a leading manufacturer and distributor of concrete formwork and accessories.

He currently serves on Committees 303, Architectural Concrete; 308, Curing; 309, Consolidation; and 546, Repair of Concrete.

A general contractor before joining Symons more than 25 years ago, he has been a speaker at hundreds of educational seminars for ACI, the World of Concrete, and other organizations, specializing in presentations about formwork and troubleshooting.

ACI CONSTRUCTION PRACTICE AWARD

The ACI Construction Practice Award was founded in 1944 by the Institute, in the hope that it would help to enrich the literature of that field of work and to honor the construction man — the man whose resourcefulness comes in between the paper conception and the solid fact of a completed structure. It may be given annually, but not necessarily in each year, for a paper of outstanding merit on concrete construction practice published by the American Concrete Institute. It is not restricted to members of the Institute. The token of the award is a plaque of bronze.



ACI STRUCTURAL RESEARCH AWARD
TO

WILLIAM C. STONE
GERALDINE S. CHEOK
JOHN F. STANTON

"for their paper ('Performance of Hybrid Moment-Resisting Precast Beam-Column Concrete Connections Subjected to Cyclic Loading,' published in the ACI Structural Journal, March/April 1995) describing tests on, and developing guidelines for, precast moment frames using mild steel and post-tensioned tendons to develop the connections."

William C. Stone is a research structural engineer, National Institute of Standards and Technology, Gaithersburg, MD, and has been with that federal agency since 1980.

At NIST, he is the principal investigator to study the performance of full-scale bridge components subjected to simulated earthquakes; in this capacity, he was responsible for the design and development of the Large Scale Structural Testing Facility at NIST. He has also been involved in such NIST projects as experimental research and development of design guidelines for novel precast prestressed moment resisting frames and development of automated procedures for the design of ductile bridge columns constructed in zones of seismic risk.

He has been a member of numerous federal teams dispatched on field investigations, including those for earthquakes at Kobe/Osaka in Japan in 1995, Loma Prieta in California in 1989, and Mexico in 1985.

A former member of Committees 228, Nondestructive Testing, and 442, Response to Lateral Forces, he was a coauthor of a paper on nondestructive testing that captured the Institute's Wason Medal for Materials Research in 1987. He has also received ASCE's T. Y. Lin Award for research on the design of post-tensioned girder anchorage zones and a U. S. Department of Commerce citation for publications and a film resulting from the Mexico earthquake investigation.

He holds engineering degrees from Rensselaer Polytechnic Institute and the University of Texas.

Geraldine S. Cheok is a research structural engineer at the National Institute of Standards and Technology, Gaithersburg, MD, and has been with that federal agency for 12 years.

She is an associate member of Committee 550, Precast Concrete Structures, and holds Bachelor's and Master's degrees in civil engineering from the University of Maryland.

John F. Stanton is professor of engineering at the University of Washington, Seattle, WA, and has been an ACI member since 1983.

He currently serves on Committees 442, Response to Lateral Forces; 550, Precast Structures; and 554, Bearing Systems. At the university, he is also director of structural and geotechnical engineering and its mechanics program as well as director of the structural research laboratory.

Stanton, who has specialized in research of precast and prestressed concrete recently, is also a participant with NIST and Charles Pankow Builders, Ltd., in the hybrid frame concept in which precast members are joined by a combination of unbonded post-tensioned strands and bonded mild steel to develop a framing system which provides excellent seismic resistance for buildings.

His past honors include ASCE's T. Y. Lin Award for authorship of a paper on prestressed concrete. Also in Seattle, Stanton was one of 28 ACI members who assumed the rank of Fellow, as approved by the Board of Direction at the New Orleans, La., convention last fall.

He received engineering degrees from Cambridge University, England, and Cornell University, Ithaca, NY, before obtaining his Ph.D. from the University of California, Berkeley. Stanton was associated with engineering firms in England, France, and Canada before joining the University of Washington faculty 20 years ago.

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.



**MAURICE P. van BUREN
STRUCTURAL ENGINEERING
AWARD TO**

ARTHUR J. O'LEARY

"for his paper ('Multi-Story Precast Concrete Frame Buildings,' published in 'Recent Developments in Lateral Force Transfer in Buildings,' Special Publication 157, 1995) describing the application of the latest innovations in precast technology to the construction of a moment resisting frame in a high seismic zone."

Arthur J. O'Leary is Structural Department manager, Kingston Morrison, Ltd., headquartered in Wellington, New Zealand, and has been with that architectural/engineering/planning firm for 24 years. In addition to four offices in New Zealand, the firm also maintains branches in Manila, Philippines, and Jakarta, Indonesia.

He holds a doctorate in civil engineering from the University of Canterbury, New Zealand, and his Ph.D. studies were under the supervision of Thomas Paulay, an Honorary Member of ACI and now professor emeritus at Canterbury.

Since attaining his doctorate in 1970, he has been associated with Kingston Morrison except for a two year period with Ove Arup and Partners in London, England. His particular interest has been in seismic design of structures, including those of precast concrete.

O'Leary is a fellow of the Institution of Professional Engineers, New Zealand, and a member of the Association of Consulting Engineers of New Zealand, the New Zealand National Society for Earthquake Engineering, the Structural Engineering Society, and the International Association of Bridge and Structural Engineers.

In addition, he has served as a structural convener for the Association of Consulting Engineers for several years and has been on various Institution of Professional Engineers committees. He has also served on the New Zealand Standards Association subcommittee on loading codes on relative seismic risk and is currently a member of the cement standards committee of the New Zealand Standards Association.

**MAURICE P. van BUREN
STRUCTURAL ENGINEERING AWARD**

The Maurice P. van Buren Structural Engineering Award was established in 1981. The award is given for an outstanding concrete building project incorporating advanced structural design concepts, advanced structural design techniques, or both, described in a paper published by the Institute. The project must be completed, but not more than three years prior to the award. The award need not be presented each year. Recipients are given a certificate citing the awardee and the project.



CHAPTER ACTIVITIES AWARD TO

LUKE M. SNELL

"in recognition for his outstanding and continuing contribution to the ACI Missouri chapter, regional chapters and ACI International."

Luke M. Snell is professor and chair of construction at Southern Illinois University, Edwardsville, IL, and has been on the faculty there for 17 years.

A Fellow of ACI and currently chairman of the Educational Activities Committee, Snell has been involved in Institute chapter activities during nearly 30 years of membership. As noted in the citation, he is a long-time member of the Missouri chapter, now serving as its secretary, and was formerly president of the chapter.

At the 1995 spring meeting in Salt Lake City, Utah, he received ACI's Joe W. Kelly Award for "creative efforts as an author and an educator, which have led to innovative methods of teaching concrete technology...and for many outstanding contributions" to the Institute's educational programs. He has also been extensively involved in ACI's certification activities as a trainer and examiner for the field technician Grade I program.

Snell is a member of the Membership Committee, and Committees E-702, Designing Concrete Structures; E-801, Student Projects; 214, Evaluation of Test Results; and 308, Curing; and is a former member of Committees 437, Strength Evaluation; and 517, Accelerated Curing. He is a former chairman of both E 702 and 517.

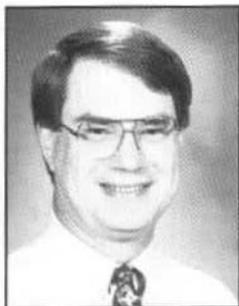
Prior to joining the SIU faculty in 1979, he was associated with the Law Engineering Testing Co., Nashville, TN, for five years and was an instructor at West Virginia University. He holds engineering degrees from the University of Oklahoma.

Also a fellow of the American Society of Civil Engineers, Snell in recent years has been involved in numerous undergraduate educational programs, including ACI's annual concrete testing competition for students, computers in concrete construction, engineering kits for construction uses, speaker programs, and construction video presentations. In collaboration with his wife, Billie, they have developed a number of early childhood educational programs to stimulate young minds and promote a better understanding of concrete and its applications.

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

**TERENCE C. HOLLAND
BASILE G. RABBAT
HAROLD R. SANDBERG**

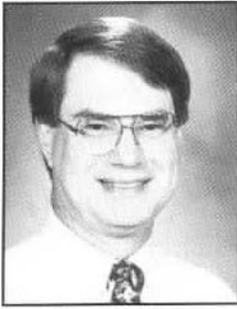
"for significant contributions and remarkable service as a technical committee member and chairman of ACI Committee 234, Silica Fume in Concrete"

Terence C. Holland has been a member of the Institute for almost 20 years and was elected an ACI Fellow in 1988. He is a member of Committee 234, and was the committee's chairman from 1988 until 1995. Holland has shown exceptional and organizational skills and leadership, TAC has noted. His proficiency in chairing the committee led to completion of the new ACI document, "Guide for the Use of Silica Fume in Concrete."

He is also a member of ACI's Board of Direction and the Technical Activities Committee and was a member of Committee 546 from 1984 to 1995, serving as committee chairman from 1987 to 1990. He was also a member of Committee 226 from 1985 to 1989, joined Committee 318's Subcommittee A in 1995, has been a member of Committee 304 since 1979, and is a member of TAC's committees on high performance concrete and metrication. He is scheduled to assume the TAC chairmanship at the conclusion of the Seattle convention.

Holland is director of engineering, Admixture Division, Master Builders, Inc., Cleveland, Ohio, and has been with that firm for nine years. He was formerly with Elkem Chemicals, Inc., Pittsburgh, Pa., and the Waterways Experiment Station, Vicksburg, MS. His honors include ACI's Construction Practice Award in 1991 for authorship of a technical paper on silica fume applications.

In 1995 at the Fifth CANMET/ACI International Conference on the Use of Fly Ash, Silica Fume, Slag, and Natural Pozzolans in Concrete, Holland received the Asbjorn Markestad Award for "outstanding contributions" in the use of condensed silica fume in portland cement concrete.



**DELMAR L. BLOEM AWARDS
FOR DISTINGUISHED SERVICE TO**

**TERENCE C. HOLLAND
BASILE G. RABBAT
HAROLD R. SANDBERG**

"for significant contributions and remarkable service as a technical committee member and chairman of ACI Committee 234, Silica Fume in Concrete"

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"for his distinguished service as Secretary of ACI Committee 318, Standard Building Code"

Basile G. Rabbat has been secretary of ACI Committee 318 since 1984 and administered the 1986, 1989, and 1992 revisions to the ACI Building Code. Most recently, his thorough knowledge and understanding of all aspects of the Code, his dedication and willingness to review and proofread the thousands of changes to the Code, and his eagerness to work with ACI staff through the long revision process were critical to the publication of ACI 318-95.

He has been a member of ACI since 1976 and has been a member of ACI Committee 215, Fatigue of Concrete, since 1977, and was the committee's chairman from 1984 until 1988. He was elected an ACI Fellow in 1987.

Rabbat is manager of transportation structures and structural codes, Engineering Services, Codes, and Standards Department, Portland Cement Association, and has been with PCA for more than 20 years. He holds engineering degrees from Alexandria University, Egypt, and the University of Toronto, Canada, and was a research and teaching assistant at the latter before moving to PCA.

He serves on a number of committees of the Precast/Prestressed Concrete Institute, the Transportation Research Board, and the American Railway Engineering Association.

"for showing exceptional technical and administrative leadership abilities dedicated to ACI technical activities"

Harold R. Sandberg, elected as an ACI Fellow in 1994, has been chairman of Committee 342, Evaluation of Concrete Bridges and Bridge Elements, since 1994. Under his direction, the committee presented a technical session at the fall convention of 1996 and has scheduled other sessions at the fall 1997 and spring 1998 conventions.

He has been a member of Committee 343 since 1977, served as that committee's chairman from 1984 until 1990, and acted as chairman of two of the committee's subcommittees. He has been a member of Committee 336 since 1995, Committee 345 since 1996, Committee 348 since 1993, and Committee 358 from 1994 to 1996.

Sandberg was a member of the ACI Board of Direction from 1988 until 1991, also a member of the Technical Activities Committee from 1989 until 1995, and formerly served on other Board Committees. He is presently chairman of the Responsibility in Concrete Construction Committee.

A long-time member and former president of ACI's Chicago (now Illinois) chapter, Sandberg is chairman of the board of Alfred Benesch Co. and has been with that Chicago engineering firm for more than 50 years. Following graduation from the University of Illinois, he joined Benesch in 1947 as a structural engineer and rose through the ranks to become an associate in 1956, vice president in 1965, president in 1971, and board chairman in 1983.

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 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.

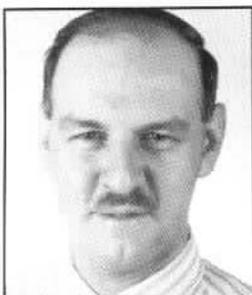
ELECTED FELLOWS

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.

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



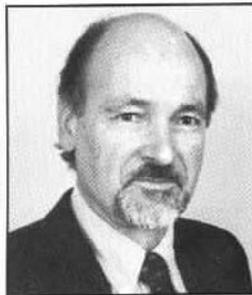
Akthem Al-Manaseer



William Barringer



Florian Barth



**Carlos R.
Casabonne**



Steven R. Close



Marwan A. Daye



Mohammad R.
Ehsani



Allen Face



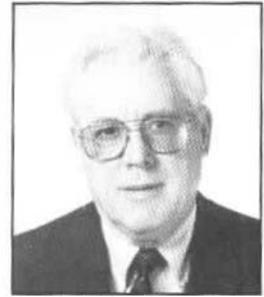
Fernando E.
Fagundo



Richard J. Frost



James T. Haney



Fred E. Hightower



Theodor
Krauthammer



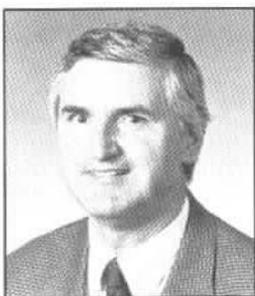
Erick N. Larson



James A. Lee



Adrian E. Long



Andrzej S. Nowak



Robert W. Piggott



B. Duke Pointer



Edward K. Rice



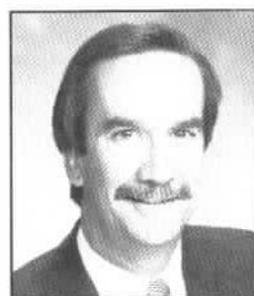
Robert C.
Richardson



Murat Saatcioglu



Robert G. Sexsmith



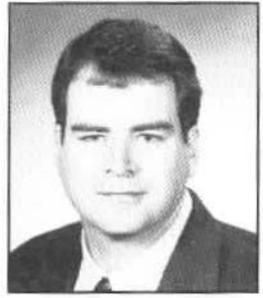
Jeffrey F. Speck



David G. Stafford



John F. Stanton



Paul J. Tikalsky



Ronald F. Zollo

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 education and certification activities; membership; meetings; local chapter award programs; public relations; newsletters; convention participation; student scholarships and/or Sponsor-a-Student program.

EXCELLENT CHAPTERS

To be announced at the Awards Breakfast.

OUTSTANDING CHAPTERS

To be announced at the Awards Breakfast

CERTIFICATES OF MEMBERSHIP APPRECIATION

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

For 70 years...



Treval C. Powers

For 60 years...



William A. Cordon

For 50 years...



Joseph H. Appleton



Craig John Cain



Robert E. Tobin

William M. Avery

Wallace G. Bond

Felix Candela

Edward M. Harboe

Eivind Hognestad

Clyde E. Kesler

Malcolm G. Long

Donald J. Neubauer

Eltweed G. Pomeroy

Jack E. Rosenlund

Roland L. Sharpe

Joseph J. Shideler

Howard Simpson

PORTLAND CEMENT ASSOCIATION CONCRETE BRIDGE AWARDS

The Portland Cement Association has named nine winners in its fifth biennial bridge awards competition and these will be recognized during the Awards Breakfast in Seattle, WA. PCA notes that the winning bridges show the versatility of concrete; the spans display a wide variety of shapes and dimensions, structure types, and construction methods. There were 56 entries from the United States and Canada for highway, pedestrian, railroad, and transit spans. Judging of the entries was based on engineering innovation, economy, and environmental treatment as well as construction. All were essentially completed between October 1994 and October 1996.

The judges were Frederick Gottemoeller, president, Gottemoeller & Associates, Inc., Columbia, MD.; James R. Hoblitzell, Bridge Division, Federal Highway Administration, Washington, D. C.; and James E. Roberts, director, Engineering Services and Chief Structures Engineer, California Department of Transportation, Sacramento, CA.

The winning entries, without regard to ranking or category, were:

Big Qualicum Bridge, Vancouver Island, British Columbia

This 856 ft. (261 m) long span carries the new four-lane Vancouver Island highway nearly 100 ft (30 m) above the Big Qualicum River and Hunts Creek on the island's east coast. Dual cast-in-place concrete arches support eight of the structure's 12 precast, prestressed concrete girder spans. The structure was designed to efficiently respond to earthquake loads by developing a plastic hinge between arch and footing.



Jury comment: *"The designers, in addition to creating a beautiful arch bridge, have applied the latest seismic design technology to preclude damage in a major earthquake."*

Depot Road Bridge, Coventry, Connecticut

This precast concrete arch culvert replaced a deteriorating stone arch span that dated back to the early 1800s. With a clear span of 20 ft (6.1 m) and a rise of 10 ft (3 m), the new facility improved load carrying capacity, roadway width, and increased the waterway opening. Cast-in-place parapets, wingwalls, simulated stone masonry formliners, and concrete staining were all used to recreate the look of the old structure.



Jury comment: *"...an economical way to create what looks like a natural stone arch bridge...it looks exceptionally authentic...it enhances the natural setting."*

Kellogg Viaduct, Wichita, Kansas

This span carries U.S. 54 traffic across the Arkansas River and into the central business district of Wichita. A major traffic artery, this replaced a structure inadequate for current levels of traffic. Twin viaducts are each 2908 ft (886 m) long with spans up to 165 ft (50.3 m). Because the structure is a prominent feature of the downtown area and is located near a park, aesthetic concerns influenced the design.

Jury comment: "...a logical and attractive solution to the problem of low columns in a wide structure. With long, slender edge cantilevers, the structure appears thinner than it actually is."



Log Farm Access Bridge, Ottawa, Ontario

Spanning Highway 416 entering Ottawa, this is a 243 ft (74.2 m) long bridge. A local commission required that the structure provide a unique and bold entrance to the nation's capital and as well as column free views of the open fields in the background. The bridge has a clear span of about 197 ft (60 m) with a superstructure that is a two-celled box section near the support. There are multiple T-beams in the central portion of the span.

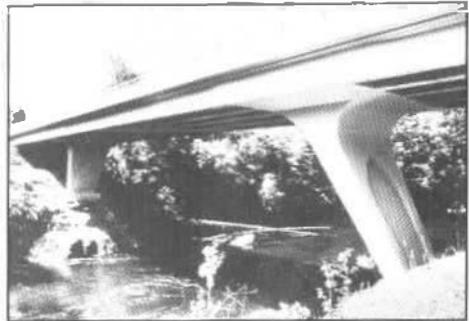
Jury comment: "...a good example of what can be done with cast-in-place concrete to achieve long spans with post-tensioning."



North Santiam River Bridge, Gates, Oregon

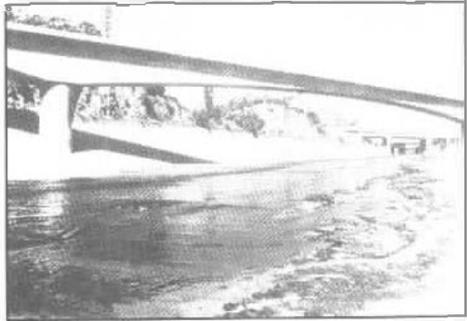
This is a two-lane highway bridge that combines precast, prestressed concrete bulb-tee girders with cast-in-place concrete pier tables to extend the span of the 60 in (1524 mm) deep girders. Serving as the only access to a small rural community, this span replaces one that was restricted by a load limit. The three spans of 95, 137, and 95 ft (29, 41.8, and 29 m) were post-tensioned for continuity.

Jury comment: "...a very aesthetically pleasing bridge in a remote area...a direct, simple solution."



Pasadena Blue Line: Los Angeles River Bridge, Los Angeles, California

Aesthetics was a strong consideration for this structure for the Blue Line light rail system across the Los Angeles River and into Pasadena. This cast-in-place post-tensioned segmental box of 1414 ft (431 m) was constructed by using the balanced cantilever method. Design for the span was completed when the Northridge earthquake took place in 1994; it was then redesigned to meet upgraded seismic standards.



Jury comment: "...a dramatic concept that positively fits in with the site...very good combination of site and structure...a good engineering solution..."

Reconstruction of Mendota Bridge, Minnesota

Built in the 1920s, this was an open-spandrel deck arch bridge that provided a major highway crossing of the Minnesota River valley near Mendota, Minn. The narrow deck was deficient but the concrete in the arches and foundations proved to be sound. As a result, reconstruction plans called for replacement of the entire structure above the dual arches. The width was increased from 60 to 92 ft (18.3 to 28 m) but certain characteristics of the original structure were retained.



Jury comment: "It demonstrates the concept of reconstructibility of concrete structures, that you don't need to 'throw them away.' In this case, it looks every bit as good as it probably did when it was brand new, maybe even better."

Rehabilitation of Portage Avenue Culvert, Winnipeg, Manitoba

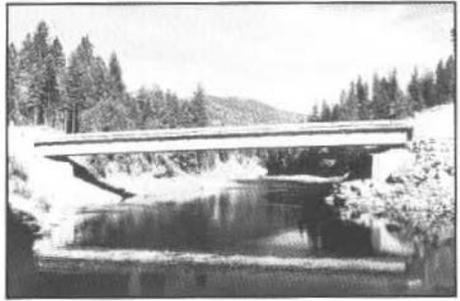
This project involved the rehabilitation of a deteriorating single-span reinforced concrete arch culvert carrying a busy urban street across an environmentally sensitive stream. The character and detailing of the existing structure, built in 1936, was retained in the reconstructed bridge. Colorful murals were painted on the wingwalls to enhance appearance.



Jury comment: "...an outstanding example of reconstruction of an existing historic...bridge...(maintaining) all of the old historic features...it has the same spirit and the same feel to it...an excellent job."

Rockcut Bridge, Washington

Located on the border of Stevens and Ferry Counties in the state of Washington, this was a replacement for a deteriorated truss bridge. A spliced-girder design was developed to eliminate the need for a river pier; each girder was delivered to a staging area near the Kettle River site in three pieces. After splicing, the 7.5 ft (2286 mm) deep girders were launched across the river by using an erection truss. Entire design and construction was completed in nine months.



Jury comment: "...a good marriage of precast and post-tensioning pieces together...the direct, uncomplicated solution fits the site best and is the best looking..."

PROJECT PRINCIPALS

Big Qualicum Bridge – British Columbia Ministry of Transportation and Highways, owner; Sandwell, Inc., Vancouver, engineer; Golder Associates, geotechnical; PCL Constructors Pacific, Inc., contractor; Bay Concrete, concrete supplier; APS Ltd., precaster.

Depot Road Bridge – Town of Coventry, Conn., owner; Nathan L. Jacobson & Associates, Inc., engineer; Milton C. Beebe & Sons, Inc., contractor; Builders Concrete, concrete supplier; Concrete Systems, Inc., precaster; Connecticut Bomanite Systems, Inc., Formliner.

Kellogg Viaduct – City of Wichita, owner; HNTB Corp., engineer/architect; Martin K. Eby Construction Co., contractor; Walt Keeler Co., Inc., concrete supplier.

Log Farm Access Bridge – Ministry of Transportation, Ontario, owner/engineer; R. W. Tomlinson Ltd., Tarcon Ltd., Beaver Road Builder Ltd., and Belfia Brothers, contractors; Unimix, division of Essroc, concrete supplier.

North Santiam River Bridge – Marion County, Ore., owner; Oregon Department of Transportation, Bridge Engineering Section, engineer; Holm II, contractor; Stayton Rock Products, concrete supplier, ESG Precast Structures, precaster.

Pasadena Blue Line – Los Angeles County Metropolitan Transportation Authority, owner; LoBuono, Armstrong and Associates, a division of Frederick R. Harris, Inc., engineer; Kiewit Pacific Co., contractor; Nelsen & Sloan, concrete supplier.

Mendota Bridge – Minnesota Department of Transportation, owner; Edwards and Kelcey, Inc., Wiss, Janney, Elstner and Associates, Inc., and Wells Engineers Minnesota, Inc., engineers; Lunda Construction Co., contractor; and Cemstone Products Co., concrete supplier.

Portage Avenue Culvert -- City of Winnipeg, owner; Dillon Consulting, Ltd., engineer; Hilderman Wilty Crosby Hanna & Associates Landscape Architects, architect; Kraft Construction Co., Ltd., contractor; Building Products & Concrete Supply Ltd., concrete supplier; Lafarge Construction Materials, precaster.

Rockcut Bridge -- Stevens and Ferry Counties, Washington, owners; Nicholls Engineering, engineer; One Way Construction Co., contractor; Colville Valley Concrete, concrete supplier; Central Pre-Mix Prestress Co., precaster.



CONCRETE RESEARCH COUNCIL ROBERT E. PHILLEO AWARD TO

JOHN M. SCANLON

"in recognition for outstanding contributions to the advancement of concrete technology through application of the results of concrete materials research"

John M. Scanlon is senior consultant and branch manager of the Memphis, TN, offices of Wiss, Janney, Elstner Associates, Inc. A Fellow of ACI, he has been with the consulting firm, headquartered in Northbrook, IL, for six years.

A year ago at the Denver, CO, convention, he was presented with the Arthur R. Anderson Award for "numerous outstanding contributions" to concrete technology including those involving supplementary cement materials, mixture proportioning procedures, and cold weather concreting. In 1992, he received a Delmar L. Bloem Distinguished Service Award for contributions to ACI technical activities.

Prior to joining the engineering firm, Scanlon was director of engineering services for Master Builders, Inc., Cleveland, Ohio, for four years and was associated with the U. S. Army Corps of Engineers at various locations, including the Waterways Experiment Station at Vicksburg, MS, for nearly 20 years.

A former member of the Board of Direction and the Technical Activities Committee, he is a member or former member of at least seven technical and administrative committees. He previously chaired Committees 207, Mass Concrete; 211, Mix Proportioning; 306, Cold Weather Concrete; and 226, Mineral Admixtures, as well as the Fellows Nominating Committee and the Metrication Committee.

An engineering graduate of Marshall University, West Virginia, he joined the Corps of Engineers at the district offices in Huntington, WV, then moved to the Ohio River division headquarters in Cincinnati, then to the Corps' Washington, D. C., headquarters, later transferring to WES at Vicksburg prior to joining Master Builders in 1987.

He moved to WJE's Northbrook headquarters as senior consultant in 1991, transferring to the Memphis office in 1994 with added responsibilities for managing that new branch.

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 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

ROBERT F. MAST

"in recognition of his notable state-of-the-art contributions to reinforced and prestressed concrete design including the shear-friction modeling concept and unified provisions for flexural and compression members"

Robert F. Mast, a past president of ACI and currently a past president Board of Direction member, is now senior principal and director of engineering development at BERGER/ABAM Engineers, Inc., Federal Way, WA.

Mast, who has been with the engineering firm since its inception more than 35 years ago, was board chairman until September 1996 and was previously president. He joined the firm following graduation from the University of Illinois with a degree in architectural engineering.

At the time, the firm was known as Anderson, Birkeland, and Anderson; after Mast was admitted to the partnership the name was changed to ABAM Engineers, using the first initials of the four partners.

A Fellow of ACI, Mast served as president in 1995 and is a long-time member of Committee 318, Standard Building Code, and chaired 318's subcommittee on flexure and axial loads during the drafting of the 1995 edition of the code. He is past chairman of Committee 512, Precast Concrete, and has served on the Planning Committee and other Board committees.

ABAM is now affiliated with Louis Berger International, Inc., a worldwide consulting engineering firm. In 1992, the firm was honored with ACI's Charles S. Whitney Award for "many of the state-of-the-art designs" and for more than 40 years of "significant contributions" to the technical activities of the Institute.

On two occasions, Mast received ASCE's T. Y. Lin Award for authorship of outstanding technical papers.

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.

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Congratulations

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