



A M E R I C A N  
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A N N U A L  
A W A R D S

*"progress through knowledge"*

MARCH 19, 1992  
SPRING CONVENTION  
WASHINGTON, D.C.  
CRYSTAL GATEWAY MARRIOTT

# AWARDS

## **Honorary Membership**

John E. Breen  
Ignacio Martín  
Floyd O. Slate

## **Arthur R. Anderson Award**

David Darwin

## **Roger H. Corbetta Concrete Constructor Award**

Jaime Moreno

## **Joe W. Kelly Award**

Richard N. White

## **Henry L. Kennedy Award**

Dean E. Stephan

## **Alfred E. Lindau Award**

Walter P. Moore, Jr.

## **Henry C. Turner Medal**

Clifford L. Freyermuth

## **Charles S. Whitney Medal**

BERGER/ABAM Engineers, Inc.

## **Cedric Willson Award**

Leonard S. Hobbs

## **Wason Medal for Materials Research**

Francois Saucier  
Michel Pigeon  
Patrick Plante

## **Wason Medal for Most Meritorious Paper**

John J. Roller  
Henry G. Russell

**ACI Construction Practice Award**

Michel-Paul Virlogeux

**ACI Structural Research Award**

Sung-Woo Shin

Mahmoud Kamara

Satyendra K. Ghosh

**Maurice P. van Buren Structural Engineering Award**

Mohammed Abul Mansur

**Chapter Activities Award**

T. Z. Chastain

**Delmar L. Bloem Awards for Distinguished Service**

James P. Allen III

John E. Sadler

John M. Scanlon

Dean E. Stephan

**Fellows**

**Chapter Awards - Citations of Excellence**

**Membership Citations**

**Concrete Research Council**

**Robert E. Philleo Award**

Bryant Mather

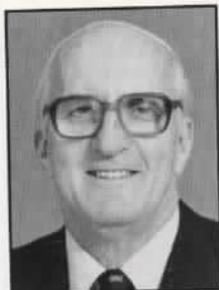
**Reinforced Concrete Research Council**

**Arthur J. Boase Award**

Paul Zia



***“progress through knowledge”***



## HONORARY MEMBERSHIP TO

### **JOHN E. BREEN**

*"for outstanding contributions through research to knowledge of the behavior of reinforced and prestressed concrete members, for notable accomplishments in transferring research into practice, and for distinguished service to the Institute, particularly as Chairman of the Technical Activities Committee from 1977 to 1979 and as Chairman of the Building Code Committee (ACI 318) from 1983 to 1989."*

**John E. Breen** holds the Nasser I. Al-Rashid Chair in Civil Engineering at the University of Texas, Austin, and is a former director of the university's Phil M. Ferguson Structural Engineering Laboratory.

A Fellow of ACI and a member of the Institute since his student days, he received a Ph.D. degree at Austin in 1962 and has been on the Texas faculty since that time. In addition to his service on TAC and Committee 318, he is a former Board of Direction member and a past chairman of Committee 441, Reinforced Concrete Columns.

Breen's previous ACI honors include the Joe W. Kelly Award in 1981 for "exemplifying the ideal professor: gifted teacher and imaginative researcher dedicated to the education of those in his trust," the Arthur R. Anderson Award in 1987 for his "outstanding contributions" in detailing of reinforced and prestressed concrete bridges, the Wason Medal for Most Meritorious Paper on two occasions, the Raymond C. Reese Structural Research Award also on two occasions, and a Delmar L. Bloem Award for Distinguished Service, notably for his chairmanship of Committee 318. He was also the Raymond E. Davis Lecturer in 1987, was presented with the Boase Award of RCRC that same year, and has captured ASCE's T. Y. Lin Award on three occasions.

Prior to moving to Austin, Breen was awarded a Bachelor's degree in engineering from Marquette University and a Master's from the University of Missouri. In addition to his service to ACI, he has been a long-time member of the Federation Internationale de la Precontrainte (FIP) and the International Association of Bridge and Structural Engineering, serving as chairman of IABSE's Working Commission III.

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The recipient of four teaching excellence awards at Texas, he has been an independent consultant on numerous major projects and was involved in the design and construction of the first segmentally constructed post-tensioned box girder bridge in the United States in 1974. Breen is also a member of the American National Standards Institute's Committee A58 which develops design loads for buildings.

### **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

### **IGNACIO MARTÍN**

*"for distinguished service to the concrete industry as a designer of innovative concrete structures; for his dedicated service to the American Concrete Institute on numerous ACI committees, as President of ACI, and as Chairman of the International Activities and Planning Committees; and for his significant contributions to ACI's valuable Pan American relationships."*

**Ignacio Martín**, past president of the Institute, is a principal and the managing partner of CMA Architects & Engineers, San Juan, Puerto Rico, the largest architectural and engineering firm in the Caribbean.

He was president of ACI in 1984, following terms as a Board of Direction member and vice president. In addition to his service on Board committees as noted in the citation, he is a member of Committee 442, Response to Lateral Forces; an associate member of Committees 305, Hot Weather Concreting, a member of 352, Joints and Connections; and past chairman of Committee 441, Reinforced Concrete Columns.

A Fellow of the Institute, he has been a member of ACI since his student days at the University of Havana, Cuba, where he received a Bachelor's degree in engineering. He obtained a Master's degree from the University of Illinois in 1952 and has been associated with what is now CMA Architects & Engineers for 32 years.

Martín has been an active member of the Council on Tall Buildings and Urban Habitat for many years and is currently serving as the council's chairman. Also a former member of the Technical Activities Committee and a director of ACI's Puerto Rico chapter, he is the author of numerous technical papers, many of them about detailing of concrete structures and structural response to lateral forces.

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## HONORARY MEMBERSHIP TO

### **FLOYD O. SLATE**

*"for a distinguished career as an educator who has enriched the lives of countless students worldwide; for his pioneering research that has resulted in greatly improved understanding of the fundamental behavior of cement and concrete; and for his worldwide efforts in developing improved cement-based, low-cost, housing systems."*

**Floyd O. Slate** is a retired professor of materials engineering and civil engineering at Cornell University, Ithaca, N. Y., and was on the faculty there for more than 38 years. Elevated to professor emeritus status upon retirement, he continues to conduct research, write, consult, and travel extensively.

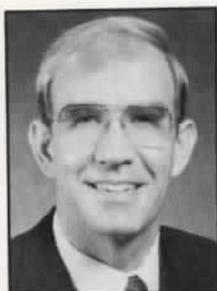
An ACI member for nearly 40 years, his Institute honors include the Arthur R. Anderson Award in 1983 for "outstanding leadership" in organizing a multidisciplinary study on low-cost housing with emphasis on concrete as the construction material; the Wason Medal for Materials Research on three occasions; and the Wason Medal for Most Meritorious Paper in 1986 for co-authorship of a paper on high strength concrete columns.

For more than three decades, he has been involved in studies of construction materials, notably concrete, that can be used in underdeveloped regions of the world where low cost housing is needed. A multidisciplinary program on this subject was established at Cornell by Professor Slate in 1973 and he has participated in seminars and workshops on low cost housing throughout the world.

A graduate of Purdue University, he was on the faculty there before moving to Cornell. Currently a resident of Venice, Fla., he also served as housing advisor to the Ministry of Public Works in Pakistan in 1955 and 1956. Slate is a former member of ACI Committees 224, Cracking, and 115, Research.

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## ARTHUR R. ANDERSON AWARD TO

### **DAVID DARWIN**

*"for numerous outstanding contributions including development of material and fracture models for concrete, research into microcracking in cement pastes, mortars, and concrete as well as study of structural concrete member behavior, and for significant efforts to incorporate this knowledge into ACI committee documents."*

**David Darwin** is the Deane E. Ackers professor of civil engineering and director, Structural Engineering and Materials Laboratory, University of Kansas, Lawrence, Kan., and has been on the faculty there for 18 years.

A Fellow and former member of the Board of Direction and Technical Activities Committee, Darwin is currently chairman of the Concrete Research Council, formerly the Concrete Materials Research Council, the Publications Committee, and is a trustee of the Concrete Research and Education Foundation (CREF).

He also serves on ACI Committees 224, Cracking, and is a former chairman of that committee; 408, Bond and Development; 445, Shear and Torsion; 446, Fracture Mechanics; and 447, Finite Element Analysis. Darwin received a Delmar L. Bloem Distinguished Service Award in 1986 for his "outstanding technical expertise and organizational abilities."

He holds degrees from Cornell University and the University of Illinois and joined the faculty at Kansas after service with the U. S. Army Corps of Engineers. Darwin is a past president and former director of ACI's Kansas chapter.

#### **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

**JAIME MORENO**

*"for advancing the use of very high strength concrete in high-rise buildings, through notable research on in-service behavior and through development and dissemination of technology on methods of construction."*

**Jaime Moreno** is manager of technical marketing, Material Service Corp., Chicago, Ill., and has been with that firm for 24 years.

A Fellow and former Board of Direction member, he currently serves on the International Activities Committee, Construction Liaison Committee, Committee 363 on High Strength Concrete, and is a trustee of the Concrete Research and Education Foundation (CREF). Moreno formerly served on ACI's Planning Committee and the Chapter Activities Committee.

A past president and charter member of the Chicago area chapter, Moreno has been active in the use of high strength concrete in the Chicago area and is a former chairman of the Materials Committee, Chicago Committee on High Rise Buildings.

A native of Bogota, Republic of Colombia, he holds engineering degrees from the Universidad de Los Andes in Bogota and the University of Illinois. Prior to joining Material Service in 1968, Moreno was a project engineer with a structural firm and part owner and plant manager of a Chicago precast concrete manufacturing firm.

### **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

### **RICHARD N. WHITE**

*"for his outstanding contributions to education in concrete as a teacher, researcher, author, and academic administrator."*

**Richard N. White** is chairman of the Institute's Technical Activities Committee and is scheduled to begin a three-year term on the Board of Direction at the Washington, D. C. convention.

A Fellow of ACI, he is currently the James A. Friend Family Distinguished Professor of Engineering at Cornell University, Ithaca, N. Y., and has been on the faculty there for more than 30 years. He is a former director of Cornell's School of Civil and Environmental Engineering and associate dean for undergraduate programs.

White is a former member and was the first chairman of Committee 444, Models for Concrete Structures, and a former member of Committee 349, Concrete Nuclear Structures. He served on TAC for six years prior to assuming the chairmanship at the Boston, Mass., convention in 1991.

The co-author of five books and numerous technical articles on structural engineering, he obtained three engineering degrees from the University of Wisconsin prior to joining the Cornell faculty in 1961. He is also a former member of ACI's Concrete Materials Research Council, now the Concrete Research Council.

### **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

### **DEAN E. STEPHAN**

*"for an outstanding record of service as a member of many of the Institute's technical committees, including the chairmanship of Committee 117, Tolerances, and of the Technical Activities Committee."*

**Dean E. Stephan** is to be installed for a two-year term as a vice president of the Institute at the General Session in Washington, D. C., and, as noted in the citation, is a former chairman of the Technical Activities Committee.

Also at the Awards Breakfast, he is to receive a Delmar L. Bloem Distinguished Service Award for "bringing his knowledge of construction management and exceptional technical and administrative expertise" to ACI technical committees.

A former member of the Board of Direction, he is vice president of Charles Pankow Builders, Ltd., Altadena, Calif., a general partner of the same firm, and a director of the Pankow Corp. An executive of the firm since 1972, he has been actively involved in design, construction, cost estimating, and management of major construction projects throughout the United States.

Stephan holds degrees in engineering from Stanford University and business administration from Claremont McKenna College and was involved in construction management with the U. S. Navy and the Guy F. Atkinson Co., South San Francisco, Calif., before joining the Pankow firm.

He is also a member of the International Activities Committee and the Construction Liaison Committee and of numerous other construction and engineering 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

### **WALTER P. MOORE, JR.**

*"for his many noteworthy achievements as a creative designer of reinforced concrete structures and for his leadership in improving the quality of structures."*

**Walter P. Moore, Jr.**, a former member of ACI's Board of Direction, is president and chairman of Walter P. Moore and Associates, Inc., structural engineering firm headquartered in Houston, Tex.

Associated with the firm since 1953, Moore currently serves on Committee 318, Standard Building Code, and the Construction Liaison Committee, and is a former member of the Planning Committee. He was the keynote speaker at the 1984 convention in Phoenix, Ariz.

A civil engineering graduate of Rice University, he has served as an adjunct professor there and was formerly on the university's Engineering Advisory Council. He received Master's and Ph. D. degrees in engineering from the University of Illinois.

Prior to joining the engineering firm, he was with the U. S. Army Corps of Engineers and was technical director of the protective structures branch of the Corps' Omaha District. A fellow of the American Society of Civil Engineers, Moore is a member of several professional associations including the International Association of Bridge and Structural Engineering and the Society of Military Engineers.

A registered engineer in 27 states, he heads a firm that also has branch offices in San Antonio and Dallas, Tex., and Tampa, Fla. He is also a partner in the Datum/Moore Partnership, a consulting firm based in Houston.

### **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

### **CLIFFORD L. FREYERMUTH**

*"for outstanding contributions to the development of design criteria and design aids for post-tensioned concrete buildings and bridges."*

**Clifford L. Freyermuth**, a member of the Board of Direction, is a consulting structural engineer specializing in post-tensioned prestressed concrete and heads Clifford L. Freyermuth, Inc., Phoenix, Ariz.

A Fellow of the Institute, he serves on Board committees on International Activities, Publications, and Responsibility in Construction and technical Committees 318, Standard Building Code, and 423, Prestressed Concrete, and is a former chairman of the latter.

A member of ACI for nearly 30 years, he was executive director of the Post-Tensioning Institute, Phoenix, before establishing his own firm three years ago. Prior to joining PTI, he was director of the Post-Tensioning Division of the Prestressed Concrete Institute, a structural engineer with the Portland Cement Association, and a bridge engineer with the Arizona Highway Department.

An engineering graduate of Iowa State University, he is a member of several professional organizations including the American Society of Civil Engineers, the International Association of Bridge and Structural Engineering, and the Reinforced Concrete Research Council.

#### **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.



Left to right: (seated) Alexander Popoff, Jr., president; Robert F. Mast, chairman of the board; Michael W. LaNier, vice president; (standing) James S. Guarre, vice president; Robert L. Wallace, senior vice president. Not present when photo was taken; Philip W. Birkeland, senior vice president, and Geoffrey L. Ballie, vice president.

## CHARLES S. WHITNEY MEDAL TO

### **BERGER/ABAM ENGINEERS, INC.**

*"for many notable state-of-the-art designs of heavy duty marine piers, monorail and elevated transit guideways, and floating concrete structures, and for over 40 years of significant contributions to ACI committees related to concrete design and construction."*

**BERGER/ABAM Engineers, Inc.**, Federal Way, Wash., has gained international recognition for pioneering work in prestressed concrete design, notably of marine facilities, and has also been a prime designer or consultant on other major projects including advanced transit guideways, containment structures, industrial facilities, and bridges and highways.

The firm's current personnel totals 40 engineers and scientists and a support staff of 24. Its key executives include Robert F. Mast, former ACI Board of Direction member and currently a member of the Technical Activities Committee, who is the chairman of the board, and president Alexander Popoff, Jr., also a Fellow of the Institute.

The firm was originally established in 1951 as a partnership by brothers Arthur R. and Thomas Anderson of Tacoma, Wash. Arthur Anderson is a past president and Honorary Member of ACI; Thomas Anderson has been more closely connected with Concrete Technology Corp., Tacoma.

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Soon after the partnership was formed, Halvard W. Birkeland joined the firm and Mast was added as a fourth partner some years later. The company of Anderson, Birkeland, Anderson, and Mast was incorporated in 1966, adopting the name of ABAM from the initials of the last names of the partners.



**Monorail system at Walt Disney World, Orlando, Florida**

In the early 1980s, the founders of the firm, with the exception of Mast, retired and management and ownership was passed to a second generation.

In 1988, ABAM formed an affiliation with Louis Berger International, Inc., which, with offices throughout the United States and in 55 other nations, is one of the world's largest consulting engineering firms.

In its history, ABAM has successfully completed more than 2000 engineering projects throughout North America and in many countries of the world. During 1990, the firm performed more than 120 separate projects ranging in size from

multi-year assignments requiring thousands of manhours to tasks that were completed in a few weeks.

The mix of recent projects with ABAM involvement include Mobil Oil's \$5.5 billion Hibernia concrete offshore platform; a freeway system of segmental concrete bridges in Bangkok, Thailand; concrete bridges for a major highway project in Las Vegas, Nev.; a precast office/warehouse complex in Honolulu, Hawaii; and a large concrete pier in Jacksonville, Fla.

Soon after its founding in the early 1950s, ABAM developed a system to construct economical, over-water, and heavy-duty piers for ports and harbors. This concept of prestressed concrete piles and precast deck panels has been refined over the years and has resulted in ABAM's involvement in numerous major piers throughout the Pacific Northwest and other coastal areas of the United States.

In the 1970s, the firm developed design concepts and capabilities for large concrete floating platforms for open-ocean service. A floating storage facility in the Java Sea near Indonesia, a floating container terminal in Alaska, and an arctic mobile structure in Alaska's Beaufort Sea are among recent projects that resulted from this development.

In the late 1960s, ABAM was retained to design the guideway for the Walt Disney World Monorail in



**Warf with specially designed concrete deck panels for "Sea-Land" at the Port of Tacoma, Washington**

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Five-level parking facility for Seattle, Washington medical center

Orlando, Fla., a project that led to other applications of guideway design and construction technology. Transit systems in Vancouver in British Columbia, at the Dallas/Fort Worth Airport, and in Irving, Tex., were all erected with ABAM engineering concepts for concrete guideways.

Over the years, ABAM employees have significantly contributed to the administrative and technical activities of the American Concrete Institute. In addition to the involvement of the Andersons, Birkeland, Mast, and Popoff, ABAM personnel have served on nearly 20 ACI committees over the years and currently, 17 ABAM employees hold memberships in the Institute.



Floating container terminal at Valdez, Alaska

### **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

### **LEONARD S. HOBBS**

*"for his work in the development of water saturation of lightweight aggregate by the vacuum method leading to the hydrothermal, or quenching process, to saturate lightweight aggregates for pumped concrete."*

**Leonard S. Hobbs** is director of technical services for Pacific Lightweight Products Co., Glendale, Calif., and has been with that firm for 33 years. An ACI member since 1968, he is also a Fellow of the Institute.

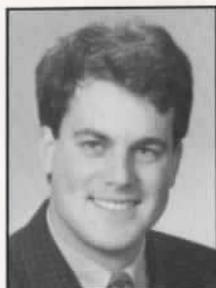
For more than three decades, he has been involved in research and development of lightweight aggregate, especially its use in pumped concrete, and, as noted in the citation, these efforts resulted in the hydrothermal method for processing such materials for use in concrete.

He is a former member of Committee 213, Lightweight Aggregates and Lightweight Aggregate Concrete, and is a past director of ACI's Southern California chapter. Hobbs received an engineering degree from the University of Southern California prior to joining Pacific Lightweight Products.

#### **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

### **FRANCOIS SAUCIER MICHEL PIGEON PATRICK PLANTE**

*"for their paper examining the effects of superplasticizers on the air-void system in concrete and their recommendations which will help in preventing deterioration of concrete subjected to freezing and thawing," "Air-Void Stability, Part III: Field Tests of Superplasticized Concretes," published in the ACI Materials Journal, V. 87, No. 1, January-February 1990.*

**Francois Saucier** is a director of Service d'Expertise en Materiaux, Inc., (S.E.M), a Sainte-Foy, Quebec, Canada, firm specializing in concrete consulting and testing services.

At the time the paper was published, he was a Ph. D. student at Laval University, Quebec City, where his research was concentrated on bonding applications for concrete repair, air-void stability, and latex modified concrete. He also received a Master's degree in engineering from Laval in 1987.

**Michel Pigeon** is professor of civil engineering at Laval and has been on the faculty there since 1972.

He is a member of ACI Committee 201, Durability, and the Eastern Ontario-Quebec chapter. A former president of that chapter, he received a Ph.D. from the Universite Pierre et Marie Curie in Paris in 1984.

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**Patrick Plante** is director of materials quality control, Fondatec, Inc., Quebec, and has been with the firm since 1989.

Also a Laval graduate, he is an instructor and examiner for ACI's field technician certification program. He received a Ph.D. from Laval with the aid of a scholarship from the Eastern Ontario-Quebec chapter.

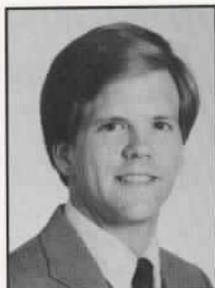
His research interests have been in the stability of air-void systems and the permeability of concrete.

### **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

### **JOHN J. ROLLER HENRY G. RUSSELL**

*"for their paper which describes tests that confirmed the need, in nonprestressed high strength concrete members subject to shear and flexure, to increase only the minimum quality of shear reinforcement specified in ACI 318 as the concrete compressive strength increases," "Shear Strength of High Strength Concrete Beams with Web Reinforcement," published in the ACI Structural Journal, V. 87, No. 2, March-April 1990.*

**John J. Roller** is a senior engineer at Construction Technology Laboratories, Inc., Skokie, Ill., and has been at CTL for eight years.

An architectural engineering graduate of the Milwaukee School of Engineering, Milwaukee, Wis., he notes that the experimental research described in the paper was used as a basis for implementing recent revisions to ACI 318 code provisions for shear strength.

At CTL, he has also been involved in other research and investigative projects including integrity of concrete containments for nuclear power plants, fiber systems for concrete products, prestressed concrete pressure pipe, testing of reinforced plastic mortar pipe, glass fiber reinforced facade panel systems, concrete structures exposed to severe environmental conditions, and high strength concrete for bridge structures.

Prior to joining CTL in 1984, Roller was an engineering analyst for Sargent & Lundy Engineers, Chicago, Ill. He is also a member of the National Association of Corrosion Engineers.

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**Henry G. Russell**, a member of ACI's Technical Activities Committee and former Board of Direction member, is a vice president of Construction Technology Laboratories, Inc., Skokie, Ill.

He also serves on technical Committees 223, Expansive Cements, of which he is now chairman; 358, Guideways; and 363, High Strength Concrete. Russell received a Delmar L. Bloem Distinguished Service Award in 1986 in recognition of his "exceptional technical and administrative leadership abilities."

An ACI member since 1969, he was director of the Structural Development Department, Portland Cement Association, prior to moving to CTL. An engineering graduate of the University of Sheffield, England, he was a structural engineer with the Building Research Station in England before moving to the United States and joining PCA in 1969.

### **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 CONSTRUCTION PRACTICE AWARD TO

### **MICHEL-PAUL VIRLOGEUX**

*"for his paper ('External Prestressing: From Construction History to Modern Technique and Technology') which presents a historical review followed by the main principles of design of externally prestressed bridges constructed in the United States, France, Belgium, Switzerland, Venezuela, Germany, and Czechoslovakia," published in SP-120, "External Prestressing in Bridges," 1990.*

**Michel-Paul Virlogeux** is the chief engineer and head of the large bridges division of the French Ministry of Transport (SETRA), Bagneux, France, and has been with that agency since 1976.

A graduate of Ecole Polytechnique and Ecole Nationale des Ponts et Chaussées, he also holds a Docteur Ingenieur degree from the University of Paris.

The recipient of an International Association for Bridge and Structural Engineering honor in 1983 for his contributions in prestressing, Virlogeux is also an instructor at Ecole Nationale des Ponts et Chaussées. He was a member of the steering committee which organized the International Symposium on External Prestressing in Bridges held during the ACI fall convention in Houston, Tex., in 1988.

### **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

### **SUNG-WOO SHIN MAHMOUD KAMARA SATYENDRA K. GHOSH**

*"for their paper ('Flexural Ductility, Strength Prediction, and Hysteretic Behavior of Ultra-High-Strength Concrete Members') which describes tests quantitatively evaluating the effect of different structural parameters on the ductility (under both monotonic and reversed cyclic loading) and also the hysteretic behavior of ultra-high-strength concrete flexural members," published in SP-121, "High Strength Concrete — Second International Symposium," 1990.*

**Sung-Woo Shin** is associate professor, Architectural Engineering Department, Han Yang University, Seoul, Korea, and has been on the faculty there for six years.

He holds a Ph. D. in structural engineering from the University of Illinois at Chicago and has been involved in research on the behavior of structural members made of high strength concrete for several years.

**Mahmoud Kamara** is a lecturer on the engineering faculty, Alexandria University, Alexandria, Egypt, where he has been since 1988.

He also holds a Ph. D. in engineering from the University of Illinois at Chicago.

*continued*

**Satyendra K. Ghosh** is director of engineered structures and codes, Portland Cement Association, Skokie, Ill., and has been with PCA for nearly 14 years.

He also serves as an adjunct professor of engineering at the University of Illinois, Chicago, and is a Fellow of ACI. Ghosh currently serves on ACI Committees 209, Creep and Shrinkage; 318, Standard Building Code; 435, Deflection; and 442, Lateral Forces.

He holds a Ph. D. in engineering from the University of Waterloo, Ontario, Canada, and has been a lecturer at numerous ACI educational seminars.

### **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**

**MOHAMMAD ABUL  
MANSUR**

*"for his paper ('Design and Construction of an Elevated Ferrocement Water Tank') which describes an innovative, economical, and practical approach to solving a problem of providing water storage in a remote village in Bangladesh," published in Concrete International, April 1990.*

**Mohammad Abul Mansur** is associate professor of civil engineering, National University of Singapore, Republic of Singapore, and has been on the faculty there for 12 years.

He currently serves on the board of directors of ACI's Singapore chapter and in 1989 was co-recipient of this same award for a *Concrete International* article on use of ferrocement sunscreens in high rise buildings in Singapore.

Mansur was the recipient of an award of excellence in concrete research by the Singapore Concrete Institute in 1986 and served on the cast-in-place concrete committee of the Council on Tall Buildings and the Urban Habitat.

He holds engineering degrees from Bangladesh University of Engineering and Technology and the University of New South Wales, Australia and has researched and written extensively on such topics as reinforced structural concrete, fiber reinforcement in concrete, and ferrocement.

**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

**T. Z. CHASTAIN**

*"in recognition of his outstanding service in the founding and continued support of his local chapter (Atlanta, now Georgia), and his leadership in the development of chapters throughout the world, both as Chairman of the Chapter Activities Committee and as President of the Institute."*

**T. Z. Chastain**, past president and an Honorary Member of ACI, heads the Chastain Division of Wiss, Janney, Elstner Associates, Inc., in Atlanta, and has been involved in design and engineering of reinforced concrete structures for more than 40 years.

He was accorded ACI Honorary Member status in 1989 "in recognition of his 34 years of dedicated service" to the Institute. In addition to serving as president in 1981 and as chairman of the Chapter Activities Committee, he was a member of the Technical Activities Committee, the International Activities Committee, the Financial Advisory Committee, Convention Committee, and several technical committees, including more than 30 years on Committee 318, Standard Building Code.

Prior to affiliation with Wiss, Janney about two years ago, he headed Chastain Forensics Corp., Atlanta, and was chairman of the board of the engineering firm of Chastain and Tindel, Inc., for nearly 25 years. A Fellow of ACI and an engineering graduate of Georgia Institute of Technology, he has been a member of the Institute since 1954.

Following service with the U. S. Navy in World War II, Chastain joined the engineering firm of I. E. Morris and Associates, Atlanta, before establishing his own private practice in 1954, five years later merging with another company to form Chastain and Tindel.

### **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



## **JAMES P. ALLEN III JOHN E. SADLER JOHN M. SCANLON DEAN E. STEPHAN**

*"in recognition to his extraordinary service to the Institute in the field of nuclear reactors."*

**James P. Allen III**, of Weston, Mass., recently retired after 34 years with Stone & Webster Engineering Corp., Boston, Mass., including 12 years as chief engineer of the civil/structural division and assistant engineering manager.

A member of ACI/ASME Committee 359, Concrete Components for Nuclear Reactors, since its creation in 1971, he recently completed 10 years as chairman. During his chairmanship, ACI 359-83, 359-86, and 359-89 with summer and winter addenda were developed by the committee and made available to the industry as a part of the ASME Boiler and Pressure Vessel Code.

He is also a member of Committee 359's subgroup on materials, construction, and examination and ASME committees on codes and standards for nuclear structures and on nuclear inspection.

*continued*

With Stone & Webster, Allen was involved in management and design of a wide range of projects including public buildings, conventional steam and nuclear power stations, pulp and paper mills, nuclear research facilities, and earth and rock dams. The Shoreham Nuclear Power Station, rehabilitation of the John W. McCormick Post Office and Courthouse in Boston, and a new U. S. Embassy Office Building in Moscow are among recent notable projects with his design and management participation.

A Fellow of both ACI and the American Society of Civil Engineers, he received a B. S. in physics from Holy Cross College and a civil engineering degree from Massachusetts Institute of Technology prior to joining Stone & Webster.

*"for significant contributions and remarkable service as a technical committee member and chairman, especially in the field of design and construction of concrete bins, silos, and bunkers.*

**John E. Sadler**, now retired, has been an ACI member since 1961 and recently concluded a decade as chairman of Committee 313, Concrete Bins and Silos.

Under his leadership, the committee standard, "Recommended Practice for Design and Construction of Concrete Bins, Silos, and Bunkers for Storing Granular Material," and its commentary were updated in 1983 and completely revised in 1991 with a new title, "Standard Practice for the Design and Construction of Concrete Silos and Stacking Tubes for Storing Granular Materials." A previous report, "Post-Tensioned Concrete Silos (ACI 313R-81)," is now a part of the new standard practice.

Prior to his involvement with Committee 313, Sadler was chairman of Committee 118, Use of Computers, from 1972 through 1976, producing several reports and a symposium volume, ACI Special Publication 33, on use of computers in structural engineering.

A resident of Columbus, Ohio, and a graduate of both Ohio University and Ohio State University, he joined Fling & Eeman, Inc., a consulting firm which later evolved into R. S. Fling & Partners, Inc., in 1958. Prior to retirement, Sadler served as president of F&P Engineers, Inc., also of Columbus.

*"in recognition of his significant and continuous service to the technical program of the Institute as a member and chairman of many technical committees since he became an ACI member in 1968."*

**John M. Scanlon** is senior consultant, Wiss, Janney, Elstner Associates, Inc., Northbrook, Ill., and is a former ACI Board of Direction and Technical Activities Committee member.

A Fellow of the Institute, he is currently chairman of Committee 207, Mass Concrete; a member and former chairman of Committee 306, Cold Weather Concreting; and a member of Committees 305, Hot Weather Concreting; 232, Fly Ash and Natural Pozzolans; 234, Silica Fume; and 233, Ground Slag.

*continued*

A former chairman of the Fellows Nominating Committee and TAC's Metrication Committee, Scanlon was a past chairman of Committee 226 before it was divided into three separate committees, and 211, Proportioning. His previous memberships also include Committees 221, Aggregates, and 555, Removal and Reuse of Concrete.

Prior to joining Wiss, Janney about a year ago, Scanlon served as director of engineering services for Master Builders, Inc., Cleveland, Ohio, and was chief, Concrete Technology Division, Waterways Experiment Station, U. S. Army Corps of Engineers, Vicksburg, Miss.

A graduate of Marshall University, Huntington, W. Va., Scanlon joined the Corps' Huntington district in 1959 as a materials engineer and nine years later transferred to the Corps' Ohio River Division, headquartered in Cincinnati, Ohio. From 1970 to 1974, he was assigned to the Office of the Chief of Engineers, Washington, D. C., after which he moved to Vicksburg.

Scanlon is a member of numerous other professional associations, including ASTM and the U. S. Committee on Large Dams.

During his chairmanships, Committee 306 withdrew its previous recommended practice (ACI 306-66) and produced a new report, ACI 306R-78, and Committee 211 developed two new standards on proportioning mixtures.

*"for bringing his knowledge of construction management and exceptional technical and administrative expertise to ACI technical committees."*

**Dean E. Stephan** has been a member of Committee 117, Tolerances, since 1977 and served as chairman from 1981 through 1987, during the initial development of "Standard Specifications for Tolerances for Concrete Construction and Materials (ACI 117-90)." This document and its commentary, ACI 117R-90, were adopted as an ACI standard in February 1990.

He also served on the Technical Activities Committee for six years, the last three (1988-91) as chairman, and is a member of Committee 318, Standard Building Code.

*See additional biographical data on page 11.*

## **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.

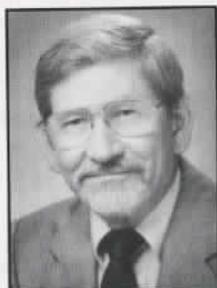


David J. Akers

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



John B. Ashby



Claude V. Baker



Andrew W. Beeby



Bayard M. Call



James Colville



Geoffrey R. Cook



**Glenn W. DePuy**



**Walter H. Dilger**



**Robert E. Englekirk**



**Robert A. Epifano**



**Richard B. Essex**  
*deceased January, 1992*



**Leo P. Flibotte**



**Robert W. Gaul**



**Kurt H. Gerstle**



**Robert J. Gulyas**



**Arne R. Hillerborg**



**Kal R. Hindo**



**Kenneth C. Hover**



**Robert S. Jenkins**



**David G. Kittridge**



**Frank A. Kozeliski**



**Stella L. Marusin**



**Sidney Mindess**



**Dudley R. Morgan**



**Palle Nepper-  
Christensen**



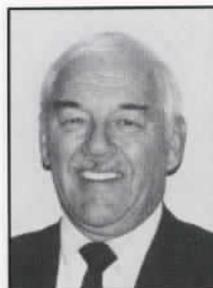
**William C. Panarese**



**Thomas L. Rewerts**



**Ephraim Senbetta**



**Lionel W. Vincent**



**Lev Zetlin**

# 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**

Arkansas  
Arizona  
Eastern New York  
Florida Suncoast  
Greater Miami Valley  
Iowa-Minnesota  
Louisiana  
Michigan  
National Capital  
New Jersey  
Northern California & Western Nevada  
Peru  
Rocky Mountain  
San Diego International  
Washington

## **Excellent Chapters**

Georgia  
Virginia

# 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.*

**Arthur C. Avril**

**William W. Davis**

**Idaho Department of Highways**

**Albert Litvin**

**Charles A. Shirk**

**Rudolph C. Valore, Jr.**



## CONCRETE RESEARCH COUNCIL ROBERT E. PHILLEO AWARD TO

### **BRYANT MATHER**

*"in recognition of the advancement of concrete technology through application of the results of concrete materials research."*

**Bryant Mather**, past president and an Honorary Member of the Institute, is chief of the Structures Laboratory, Waterways Experiment Station, U.S. Army Corps of Engineers, Vicksburg, Miss., and last year marked 50 years of service with that federal agency.

A member of ACI for more than 45 years, he was president of the Institute in 1964, vice president for two years, a member of the Board of Direction, a member of the Technical Activities Committee for nine years, including three as its chairman, and is serving or has served on nine technical committees.

His honors include ACI's Henry C. Turner Medal in 1975 for "many years in improving the quality of concrete work" and for his "vigorous personal efforts both inside and outside that assignment" and a Delmar L. Bloem Award last year for his "dedication of a very large part of his career" to the technical activities of the Institute. The Bloem Award citation noted that he had accumulated 162 years of service on the nine technical committees.

Mather, a native of Baltimore and a graduate of Johns Hopkins University, is also a former president of ASTM and two years ago received that society's William T. Cavanaugh Memorial Award for "exceptional contributions" to the nation's voluntary consensus standards system.

Also an honorary member of the American Society of Civil Engineers, he joined the Corps of Engineers in 1941 at the Central Concrete Laboratory, West Point, N.Y., and then Mt. Vernon, N.Y., prior to moving to Vicksburg in 1946. A member of numerous professional associations, Mather is also a former chairman of both ASTM Committees C-1, Cement, and C-9, Concrete and Concrete Aggregates.

#### **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

### **PAUL ZIA**

*"for his leadership as an educator whose research work in reinforced and prestressed concrete has resulted in advancing the state-of-the-art of engineering practice."*

**Paul Zia**, past president of ACI, is distinguished university professor and former head of the Department of Civil Engineering, North Carolina State University, Raleigh, N. C.

A Fellow of the Institute, he served as president in 1989 following terms as a vice president and Board of Direction member. For more than 30 years, he has been involved in research, teaching, and consulting in precast, prestressed, and reinforced concrete; currently, he is investigating high performance concrete.

A member of the Reinforced Concrete Research Council since 1983, he is now the chairman of ACI's Planning Committee and a former chairman of the International Activities Committee. Zia also served on the Technical Activities Committee, the Convention Committee, and technical committees 445, Shear and Torsion; 438, Torsion; and 363, High Strength Concrete.

With the exception of two years as visiting professor at the University of California, Berkeley, he has been on the faculty at NCSU since 1961. Zia holds engineering degrees from National Chiao Tung University in China and the University of Washington and the University of Florida in the United States.

In 1985, he received the Institute's Joe W. Kelly Award "in appreciation of a great teacher who has expanded many minds, in many places, with the realisms of reinforced and prestressed concrete design and behavior." Zia is an honorary member of the American Society of Civil Engineers and a member of the National Academy of Engineering.

### **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.

# INDEX

## 1992 ANNUAL CONVENTION AWARDEES

(listed in alphabetical order)

David J. Akers .....	30
James P. Allen III .....	27-28
John B. Ashby .....	30
Arthur C. Avril .....	34
Claude V. Baker .....	30
Andrew W. Beeby .....	30
BERGER/ABAM Engineers, Inc. ....	14-16
John E. Breen .....	4, 5
Bayard M. Call .....	30
T. Z. Chastain .....	26
James Colville .....	30
Geoffrey R. Cook .....	30
David Darwin .....	8
William W. Davis .....	34
Glenn W. DePuy .....	31
Walter H. Dilger .....	31
Robert E. Englekirk .....	31
Robert A. Epifano .....	31
Richard B. Essex .....	31
Leo P. Flibotte .....	31
Clifford L. Freyermuth .....	13
Robert W. Gaul .....	31
Kurt H. Gerstle .....	31
Satyendra K. Ghosh .....	23, 24
Robert J. Gulyas .....	31
Arne R. Hillerborg .....	31
Kal R. Hindo .....	31
Leonard S. Hobbs .....	17
Kenneth C. Hover .....	31
Idaho Department of Highways .....	34
Robert S. Jenkins .....	32
Mahmoud Kamara .....	23, 24

# INDEX

## 1992 ANNUAL CONVENTION AWARDEES

David G. Kittridge .....	32
Frank A. Kozeliski .....	32
Albert Litvin .....	34
Mohammed Abul Mansur .....	25
Ignacio Martín .....	6
Stella L. Marusin .....	32
Bryant Mather .....	35
Sidney Mindess .....	32
Walter P. Moore, Jr. ....	12
Jaime Moreno .....	9
Dudley R. Morgan .....	32
Palle Nepper-Christensen .....	32
William C. Panarese .....	32
Michel Pigeon .....	18, 19
Patrick Plante .....	18, 19
Thomas L. Rewerts .....	32
John J. Roller .....	20
Henry G. Russell .....	20, 21
John E. Sadler .....	27-28
Francois Saucier .....	18
John M. Scanlon .....	27-29
Ephraim Senbetta .....	32
Sung-Woo Shin .....	23
Charles A. Shirk .....	34
Floyd O. Slate .....	7
Dean E. Stephan .....	11, 27, 29
Rudolph C. Valore, Jr. ....	34
Lionel W. Vincent .....	32
Michel-Paul Virlogeux .....	22
Richard N. White .....	10
Paul Zia .....	36
Lev Zetlin .....	32

# 1992 ANNUAL CONVENTION AWARDS

(listed in alphabetical order)

Arthur R. Anderson Award .....	8
Delmar L. Bloem Awards for Distinguished Service .....	27-29
Arthur J. Boase Award (RCRC) .....	36
Certificates of Membership Appreciation .....	34
Chapter Activities Award .....	26
Chapter Awards — Citations of Excellence .....	33
ACI Construction Practice Award .....	22
Roger H. Corbetta Concrete Constructor Award .....	9
Fellows .....	30-32
Honorary Membership .....	4-7
Joe W. Kelly Award .....	10
Henry L. Kennedy Award .....	11
Alfred E. Lindau Award .....	12
Robert E. Philleo Award (CRC) .....	35
ACI Structural Research Award .....	23-24
Henry C. Turner Medal .....	13
Maurice P. van Buren Structural Engineering Award .....	25
Wason Medal for Materials Research .....	18, 19
Wason Medal for Most Meritorious Paper .....	20, 21
Charles S. Whitney Medal .....	14-16
Cedric Willson Award .....	17

**Congratulations  
1992  
Awardees**



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