



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

1996

Annual Awards

"progress through knowledge"

MARCH 19, 1996
SPRING CONVENTION
MARRIOTT CITY CENTER
DENVER, COLORADO

AWARDS

Honorary Memberships

T.E. (Gene) Northup
Walter George John (Mick) Ryan
Joseph H. Walker

Arthur R. Anderson Award

John M. Scanlon

Joe W. Kelly Award

Neil M. Hawkins

Henry L. Kennedy Award

Douglas W. Deno

Alfred E. Lindau Award

Ignacio Martin

Henry C. Turner Award

Emery Farkas

Charles S. Whitney Medal

Charles Lee Powell Structural Research Laboratories,
University of California at San Diego

Wason Medal for Materials Research

Josée Duchesne
Marc-André Bérubé

Wason Medal for Most Meritorious Paper

Peter H. Emmons
Alexander M. Vaysburd
James E. McDonald

ACI Construction Practice Award

Phillip S. Dunston
David W. Johnston
Paul P. McCain

ACI Structural Research Award

Hossain Hadje-Ghaffari
Oan Chul Choi
David Darwin
Steven L. McCabe

Maurice P. van Buren Structural Engineering Award

Richard Smart

Chapter Activities Award

Robert E. Tobin

Delmar L. Bloem Award for Distinguished Service

James Colville
Timothy L. Moore
Arthur J. Mulkoff

Fellows

Chapter Awards - Citations of Excellence

Membership Citations

Concrete Research Council

Robert E. Philleo Award
V. Mohan Malhotra

Reinforced Concrete Research Council

Arthur J. Boase Award
John F. McDermott



HONORARY MEMBERSHIP TO

T. E. (GENE) NORTHUP

"for dedicated service to the Institute as a member and chairman of ACI-ASME Committee 359, as a member and chairman of the Technical Activities Committee, and as ACI President."

T. E. (Gene) Northup, a former president of the Institute and chairman of the Technical Activities Committee, is currently executive vice president and the co-founder of Leading Edge Engineering, Inc., a specialty consulting firm based in San Diego, Calif.

A member of ACI for nearly 25 years and a Fellow, he was associated with GA Technologies (previously known as General Atomics Corp.) in San Diego prior to the establishment of Leading Edge Engineering about two years ago. His positions with GA Technologies included director of the High Temperature Gas-Cooled Reactor Division and general manager of the Power Reactor Activities Section.

He was chairman of Committee 359 for several years and served on the Technical Activities Committee from 1976 to 1985. Northup chaired TAC for three years and in 1976 was presented with a Delmar L. Bloem Distinguished Service Award for his contributions to Institute technical activities.

Northup, who holds engineering degrees from the universities of Iowa and Tennessee, served as ACI president in 1987 following terms as a vice president and director. He also served on the Planning Committee, Publications Committee, Financial Advisory Committee, and Construction Liaison Committee.

Prior to joining General Atomics in 1965, he was with Union Carbide Corp., Oak Ridge, Tenn., and was involved in the design of reactor containment structures and other nuclear components. Northup is a member of several American Society of Mechanical Engineers committees related to nuclear codes and standards and in 1991 was presented with ASME's B. Langer Award for his contributions to that organization and the nuclear industry.

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

WALTER G.J. (MICK) RYAN

"for his numerous contributions to the development and promotion of the cement and concrete industry of Australia and for his continuing and untiring efforts to integrate Australian technology into the world marketplace."

Walter G. J. (Mick) Ryan retired in November 1995 after more than 40 years involvement in the Australian concrete construction industry. At the time of retirement, he was the chief executive officer of the Cement and Concrete Association, Australia, a position he had held since 1990.

On retirement, he also stepped down as secretary of the Federal Council of the Concrete Institute of Australia of which he is a past president and an honorary member. A member of ACI for nearly 40 years, he served on the International Activities Committee and Committee 548, Polymers in Concrete.

At a September 1995 "Concrete '95" conference in Brisbane, he was presented with the FIP Medal for his contributions to the advancement of concrete around the world. At a 1989 CANMET/ACI conference in Trondheim, Norway, Ryan was honored with the Abdun-Nur Award for his contributions in the research, development, and utilization of fly ash in concrete.

After receiving an engineering degree from the University of Sydney, Australia, Ryan was associated with a number of public and private firms in that nation. He was also interim executive director of the National Building Technology Center, North Ryde, and for six years operated his own consulting practice, specializing in concrete technology, before moving to the Cement and Concrete Association.

His service and honors in the Australian concrete and construction industry are numerous and his involvement in conferences and symposia extend over decades. These include honorary member of the Concrete Institute of Australia; past president of the National Ready Mixed Concrete Association; a fellow of both the Institution of Engineers of Australia and the Australian Academy of Technological Sciences and Engineering; and member of the Federal Government Building Research and Development Advisory Committee.

He now resides in MacMasters Beach in New South Wales.

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HONORARY MEMBERSHIP TO

JOSEPH H. WALKER

"In recognition of his leadership of the Institute as President, his service on technical committees, and his long time involvement in concrete research and development."

Joseph H. Walker, retired executive of the Portland Cement Association, now residing in Green Valley, Ariz., served as president of ACI in 1975 following terms as a vice president and member of the Board of Direction.

A member of the Institute for more than 30 years and a Fellow, he was a long-time member of Committees 114 and 115 on research and served as secretary to 114 for several years. He was an active member of the Chicago area chapter for many years and was chairman of the local committee for the 1969 annual ACI meeting in that city.

An officer with the U. S. Army Corps of Engineers during World War II, retiring from active service with the rank of lieutenant colonel, he joined the Portland Cement Association, Skokie, Ill., for a career of 28 years. Prior to retirement in 1974, he held a number of executive positions including assistant to the vice president of research and development; chief administrative officer of research and development; and vice president of administration and director of the laboratories and the Cement and Concrete Research Institute.

After receiving a chemical engineering degree from Rose Polytechnic Institute, in his home town of Terre Haute, Ind., he joined the Louisville Cement Co., Louisville, Ky., where he was involved in chemical control, production, and research, prior to military service. In addition to his ACI membership, he was also a member of ASTM, the Transportation Research Board, American National Standards Institute, and the U. S. Committee on Large Dams.

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ARTHUR R. ANDERSON AWARD TO

JOHN M. SCANLON

"for numerous outstanding contributions to the concrete industry including development of mass concrete technology, use of supplementary cementing materials, optimization of mixture proportioning procedures, use of concrete during cold weather construction, and integration of this and other information into ACI documents."

John M. Scanlon is senior consultant and branch manager of the Memphis, Tenn., offices of Wiss, Janney, Elstner Associates, Inc., headquartered in Northbrook, Ill. A Fellow of ACI, he has been with WJE for five years.

Prior to joining the consulting 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 for nearly 20 years.

A former member of ACI's Board of Direction and Technical Activities Committee, he has been extensively involved in technical committee activities and in 1992 received a Delmar L. Bloem Distinguished Service Award for "significant and continuous service" in this area. He is a member or former member of eight Institute technical committees and past chairman of the Fellows Nominating Committee, Metrication Committee, and Committees 211, Mix Proportioning; 306, Cold Weather Concreting; and 226, Mineral Admixtures. He currently serves as chairman of Committee 207, Mass Concrete.

An engineering graduate of Marshall University, Huntington, W. Va., he joined the Corps of Engineers in 1959 as a materials engineer in the Huntington district. Scanlon was later assigned to the Corps' Ohio River division laboratories in Cincinnati, Ohio, and to the Office of the Chief of Engineers in Washington, D. C., before moving to the Corps' Waterways Experiment Station in Vicksburg, Miss., where he remained until 1987 when he joined Master Builders.

Scanlon's other honors include ASTM's Award of Merit for contributions in the cause of voluntary standardization and numerous Department of Army citations for meritorious service.

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.



JOE W. KELLY AWARD TO

NEIL M. HAWKINS

"in recognition of bringing the knowledge gained from an outstanding career as a prolific and innovative researcher into the classroom by teaching and advising students in the behavior and design of reinforced and prestressed concrete."

Neil M. Hawkins is professor and head, Department of Civil Engineering, University of Illinois, Urbana, Ill., and has been on the faculty there for five years.

A Fellow and former member of the Board of Direction, he moved to Illinois in 1991 after more than 22 years at the University of Washington, Seattle, Wash. He was associate dean for research, facilities, and external affairs, office of the Dean of Engineering at Washington prior to transferring to Urbana.

His ACI honors include the Structural Research Award in 1991 for coauthorship of a paper on reinforced concrete slab-column connections; a Wason Medal for Materials Research in 1970 for coauthorship of a paper on shearhead reinforcement for slabs; the Raymond C. Reese Structural Research Award in 1978 for a paper on fatigue design considerations for reinforcement in bridge decks; and the Reese award again in 1981 for a paper on progressive collapse of flat plate structures. He also received the Lin Award, American Society of Civil Engineers, in 1988.

Long active in the technical activities of ACI, he now serves on Committees 215, Fatigue; 318, Standard Building Code; 408, Bond and Development; 445, Shear and Torsion; and 550, Precast Concrete Structures. Hawkins is a former member of the International Activities Committee and Committees 343, Bridge Design; 352, Joints and Connections; and 355, Anchorage.

A native of Australia, he received engineering degrees from Sydney University in that country and the University of Illinois before joining the faculty at Sydney. He taught at the Australian university for five years before returning to the United States to accept employment with the Portland Cement Association, Skokie, Ill., as a development engineer; he moved to the Washington faculty in 1968.

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

DOUGLAS W. DENO

"for long and untiring service to the Institute on many technical and administrative committees at both the chapter and national levels, particularly recognizing an outstanding chairmanship of the Educational Activities Committee."

Douglas W. Deno, a member of the Board of Direction, and former chairman of the Educational Activities Committee, is branch manager and senior consultant, Wiss, Janney, Elstner Associates, Inc., at the firm's offices in Irving, Tex.

A Fellow of ACI, he is a past president and former director of the Northeast Texas chapter. In 1984, Deno received the chapter's Sophus Thompson Award and in 1995 the chapter's "Distinguished Member Award" for outstanding contributions. He is a member of Committee 232, Fly Ash and Natural Pozzolans in Concrete; the Certification Programs Committee; the Ad Hoc Strategic Planning Committee; and is a former member of the Financial Advisory Committee, Convention Committee, and the Chapter Activities Committee.

He was named to the Educational Activities Committee in 1986 and was its chairman for a three-year term that started in 1992. Deno, elected to ACI's Board in 1994 and now serving a three year term, was chairman and then vice chairman of the chapter's local convention committees for the Institute meetings in Dallas in 1981 and 1991. He has been extensively involved in ACI's certification program as well as ASTM committee activities related to materials and testing.

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 IGNACIO MARTÍN

"In recognition of contributions to the art and science of reinforced concrete design through an outstanding career as a practitioner and teacher, as well as long service to the Institute as a member and chairman of technical committees."

Ignacio Martín is an Honorary Member of the Institute and a past president, serving in that position in 1984 after terms as vice president and member of the Board of Direction.

A member of ACI for more than 40 years, he retired in 1993 from CMA Architects and Engineers, San Juan, Puerto Rico, the largest such consulting firm in the Caribbean, and currently maintains his own practice in San Juan.

He was accorded Honorary Membership in 1992 for "distinguished service" to the concrete industry and ACI and for his "significant contributions" in furthering the Institute's Pan American relationships.

He is a former chairman and a consulting member of Committee 442, Response to Lateral Forces, and an associate member of Committees 305, Hot Weather Concreting, and 352, Joints and Connections. He is a former member of the Technical Activities Committee, International Activities Committee, other Board committees, and Committee 431, Columns; he is also a former director of the Puerto Rico chapter.

Martin has been a member of ACI since his student days at the University of Havana, Cuba, and at the University of Illinois where he obtained a Master's degree in engineering. After opening a consulting practice in Havana, he relocated to Puerto Rico where the partnership of CMA was established in 1960.

Martin has been an active member of the Council on Tall Buildings and Urban Habitat for many years and is a former chairman of that organization.

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 an 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

EMERY FARKAS

"for distinguished service to the concrete industry as a leader in the development and marketing of chemical additives and admixtures, and as president of ACI and chairman of the board of ASTM."

Emery Farkas, past president and Honorary Member of the Institute, retired in 1994 after more than 35 years with the Construction Products Division, W. R. Grace & Co., Cambridge, Mass. A vice president of the division upon retirement, he now resides in Sarasota, Fla.

President of ACI in 1985 following terms as vice president and Board of Direction member, he is currently chairman of the Chapter Activities Committee and a member of the Financial Advisory Committee. He is also a former chairman of the Financial Advisory Committee and Educational Activities Committee and a member of Committees 201, Durability, and E 601, Seminars and Workshops.

Farkas was accorded Honorary Membership for "distinguished service" to ACI and for "outstanding leadership in standardization activities" at the 1993 spring convention in Vancouver, British Columbia. In 1981 he was presented with the Henry L. Kennedy Award for his "many years of outstanding technical and administrative services" to the Institute.

He also served as board chairman of ASTM, Philadelphia, following terms as an ASTM vice president and board member.

A native of Hungary, he graduated with a chemical engineering degree from the Polytechnic University of Budapest and immigrated to the United States as a teaching fellow at Harvard University. He later attended the Sloan School for Business Executives at Massachusetts Institute of Technology.

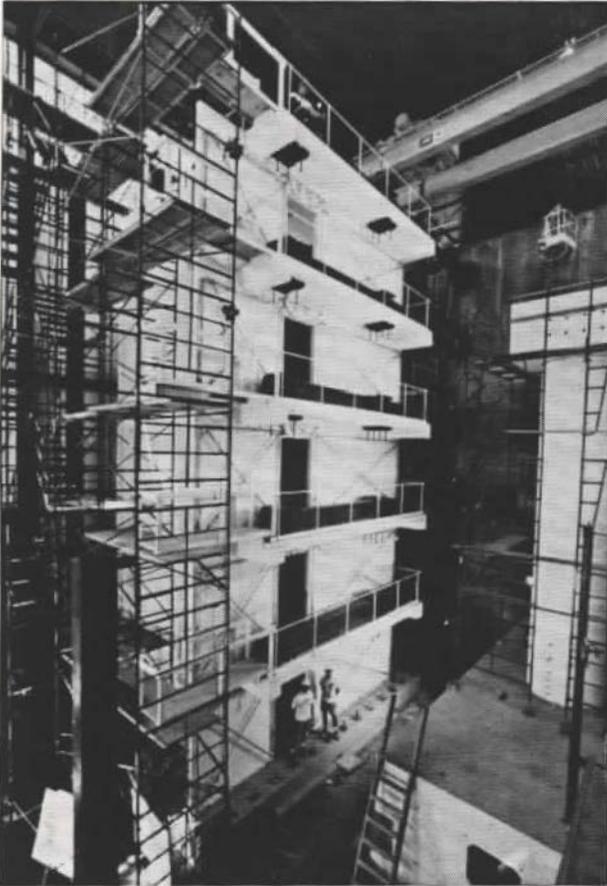
HENRY C. TURNER MEDAL

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

CHARLES LEE POWELL
STRUCTURAL RESEARCH LABORATORIES,
UNIVERSITY OF CALIFORNIA AT SAN DIEGO



"In recognition of state-of-the-art research on the design, strengthening, and repair of concrete bridges and buildings in seismic regions."

The Charles Lee Powell Structural Research Laboratories at the University of California, San Diego, were established in 1986 and the first facility, a high bay test hall capable of testing 15 m (50 ft.) tall structures was opened in December that year. Since then, additional facilities have been added, including a new structural components laboratory and a special laboratory for full-scale testing of new lightweight composite materials and structures.

Research emphasis has been on the seismic design and behavior of concrete and masonry structures but there has also been extensive activity on advanced composite materials structures and steel frame structures, resulting from the 1994 earthquake in the Northridge, Calif., area.

During 1995, more than 50 large scale experiments were carried out. In recent years, significant testing has been done on the steel jacketing of existing bridge columns in an effort to improve seismic performance of such spans. This testing has also formed the basis for the extensive bridge retrofit program conducted by the California Department of Transportation (CALTRANS).

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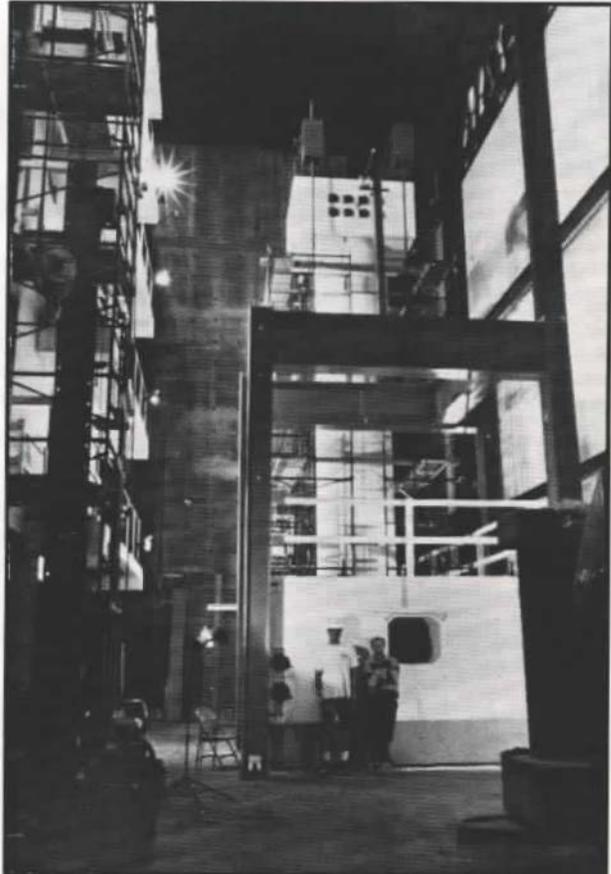
Other major recent activity at the Powell labs include the seismic testing of a five-story full-scale masonry building as the final stage of the TCCMAR coordinated masonry research program and the design and testing of a half-scale model of a retrofit concept for double-deck viaducts in the San Francisco area.

All of the Powell labs are directly linked to the San Diego Supercomputer Center for interactive testing with state-of-the-art on-line computer controlled servo-hydraulic multi-actuator loading systems. The labs are supported by machine, electronics, and wood shops as well as manufacturing and processing capabilities for advanced composite materials.

Research at the labs has been funded by CALTRANS, the National Science Foundation, the SAC structural steel consortium, the Federal Highway Administration, the Defence Conversion Program, and other sources.

Codirectors of the laboratory are Gilbert Hegemier and Frieder Selble. Other key personnel include

John Kosmatka, Chia-Ming Uang, and M.J. Nigel Priestley. The latter, long-time ACI member and Fellow, is expected to accept the award in Denver on behalf of the laboratory.



CHARLES S. WHITNEY MEDAL

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

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



WASON MEDAL FOR MATERIALS RESEARCH TO



JOSÉE DUCHESNE AND MARC-ANDRÉ BÉRUBÉ

"for their paper ('Available Alkalies from Supplementary Cementing Materials') which addresses the shortcomings of using existing chemical tests to evaluate alkali availability from supplementary cementitious materials, and shows the significance of analyses of extracted pore solution in evaluating alkali silica reactivity and the balance, over time, between available alkalies and those entrapped in hydration products," published in the ACI Materials Journal, V. 91, No. 3, May-June 1994.

Josée Duchesne is professor of geology at Laval University, Quebec, Canada, having joined the faculty there in September 1994.

An ACI member, she previously was a doctoral candidate in the Department of Geology at Laval. She received her Master's from that same university in 1989 and has specialized in research of supplementary cementing materials and their long-term performance.

Marc-André Bérubé is professor of geology and engineering geology at Laval and has been on the faculty there for 20 years.

He is a member of the Center de Recherche Interuniversitaire sur le béton, involving both Laval and Sherbrooke universities in Quebec. He is also a member of the Canadian Standards Association and is currently involved in CSA revisions concerning alkali-aggregate reactivity, accelerated test methods, and applications of supplementary cementing 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.



WASON MEDAL FOR MOST MERITORIOUS PAPER TO

PETER H. EMMONS

ALEXANDER M. VAYSBURD

JAMES E. McDONALD

"for their paper ('Concrete Repair in the Future Turn of the Century — Any Problems?') bringing to the forefront current concrete repair compatibility and related issues, and the need for the transference to the engineering and architectural community, so that sound design principles may be applied," published in Concrete International, V. 16, No. 3, March 1994.

Peter H. Emmons is president and the founder 20 years ago of Structural Preservation Systems, Inc., Baltimore, Md.

He is a member of the Construction Liaison Committee, the Financial Advisory Committee, and Committees 364, Rehabilitation, and 546, Repair of Concrete. Structural Preservation was established in 1976 with two employees and is now a leading construction firm specializing in concrete repair and rehabilitation.

A civil engineering graduate of the University of Maryland, Emmons was also in the group of 22 elected to the position of Fellow, also to be honored at the spring meeting in Denver.

Alexander M. Vaysburd is a Fellow of ACI and director of research and development for Structural Preservation Systems, Inc., Baltimore, Md.

With Structural Preservation for four years, he is a member of ACI Committees 213, Lightweight Aggregate and Concrete, and 546, Repair of Concrete. Previously, he was senior structural and concrete materials engineer with Greiner Engineering, Timonium, Md.

A native of the former Soviet Union, he received engineering degrees from the Civil Engineering Institute, Kiev, and ZNEEP, Selstroy, Moscow, and taught at the Polytechnical Institute in Tashkent, U.S.S.R., before immigrating to the United States in 1980.

James E. McDonald is senior research engineer at the Waterways Experiment Station, Vicksburg, Miss., and has been at that U. S. Army Corps of Engineers facility for more than 35 years.

A Fellow of ACI, he is the current chairman of Committee 210, Deterioration of Concrete, a former chairman of Committee 546, Repair, and now a member of Committees 364, Rehabilitation, and E 903, Convention Training. He is a past member of Committee 421, Design of Slabs.

With the Corps, McDonald was instrumental in the development of the Repair, Evaluation, Maintenance, and Rehabilitation (REMR) program, a major study to develop effective and affordable technology for evaluation and repair of civil works structures. He is problem area leader for the concrete and steel structures portion of REMR and also principal investigator for four REMR work units.

A charter member of the International Concrete Repair Institute and a member of its board of directors, McDonald recently received a U. S. Department of Army citation for his contributions in developing a precast forming system for lock wall rehabilitation. He holds engineering degrees from Mississippi State University.

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

PHILLIP S. DUNSTON

DAVID W. JOHNSTON

PAUL P. McCain

"For their paper ('Formwork Pressures in Tall Walls with Extended Set Concrete') revealing a more thorough understanding and comparison of actual and theoretical hydrostatic pressure effects on formwork," published in Concrete International, V. 16, No. 11, November 1994.

Phillip S. Dunston is now assistant professor of engineering at the University of Washington, Seattle, Wash. At the time the paper was written, he was a graduate research assistant enrolled in a Ph.D. program at North Carolina State University, Raleigh, N. C.

The article in *Concrete International* was an expansion of his thesis for a Master's degree.

David W. Johnston is professor of civil engineering at North Carolina State University and has been on the faculty there for nearly 20 years.

A Fellow of ACI, he is a member of Committees 347, Formwork; 315, Details of Reinforcement; 215, Fatigue of Concrete and a former chairman of that committee; and 408, Bond of Reinforcement.

A member of the Institute for nearly 30 years, he received all three of his engineering degrees at NCSU and was associated with consulting firms, including Schupack Associates, Inc., Norwalk, Conn., before joining the faculty at Raleigh. He is also a member of the Precast/Prestressed Concrete Institute, American Society of Civil Engineers, and other professional organizations.

Paul P. McCain is lecturer and civil engineering extension specialist at North Carolina State University, Raleigh, and has been there for eight years.

He teaches and conducts industry training and research related to construction engineering and management.

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**



**HOSSAIN HADJE-
GHAFFARI**

OAN CHUL CHOI

DAVID DARWIN

STEVEN L. McCABE



"for their paper ('Bond of Epoxy-Coated Reinforcement: Cover, Casting Position, Slump, and Consolidation'), furthering the understanding of bond of epoxy-coated reinforcement to concrete as influenced by cover, casting position, slump and consolidation, and developing behavior based design provisions," published in the ACI Structural Journal, V. 91, No. 1, January-February 1994.

Hossain Hadje-Ghaffari is now assistant professor of civil engineering at Sharif University of Technology, Tehran, Iran, and is also associated with an architectural and engineering firm in that city.

At the time of the research, he was a graduate student at the University of Kansas, Lawrence, Kan. He received a Bachelor's in architecture from the University of Nebraska before moving to Kansas for his Master's and Ph. D. degrees.

Oan Chul Choi is now assistant professor of architectural engineering at Soong Sil University in Seoul, Korea. At the time of the research, he was a graduate assistant at Kansas.

He received Bachelor's and Master's degrees from Soong Sil University, was a project engineer for Hyundai Construction Co., and taught at Ulsan University before enrolling in Kansas.

David Darwin is the Deane E. Ackers Professor of Civil Engineering at the University of Kansas and has been on the faculty there for 22 years. He is also director of the Structural Engineering and Materials Laboratory at the university.

A Fellow and former member of the Board of Direction, he is currently chairman of the Publications Committee and the Concrete Research Council and is a trustee of the Concrete Research and Education Foundation (ConREF). He is also a former member of the Technical Activities Committee.

Darwin serves on Committees 224, Cracking, is a former chairman of that group, and is also a member of 408, Bond and Development; 445, Shear and Torsion; 446, Fracture Mechanics; 447, Finite Element Analysis; TAC's Technology Transfer Committee; and the Financial Advisory Committee.

His honors include a Delmar L. Bloem Distinguished Service Award in 1986 for his "outstanding technical expertise and organizational abilities" and the Arthur R. Anderson Award in 1992 for "numerous outstanding contributions" and "significant efforts" in structural concrete research.

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

Steven L. McCabe is associate professor of civil engineering at the University of Kansas, Lawrence, Kan., and has been on the faculty there for 10 years.

Currently, he is a Fulbright Scholar and visiting professor of structural engineering at Norwegian Institute of Technology, Trondheim, Norway. He is scheduled to return to the University of Kansas in July 1996.

McCabe is chairman of Committee 439, Steel Reinforcement, and secretary of ACI-ASCE Committee 447, Finite Element Analysis. A member and former president of the Institute's Kansas chapter, he is also a member of new Committee 318 and its subcommittee on bond and development of reinforcement, and Committees 368, Earthquake Resisting Elements; 408, Bond and Development; and 446 Fracture Mechanics.

He received mechanical engineering degrees from Colorado State University before receiving a Ph.D. in civil engineering from the University of Illinois where he was a research assistant for four years.

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

RICHARD SMART

"for his paper ('Edmonds Centre for B. C. Hydro') describing the innovative use of cast-in-place, prestressed, and precast concrete to solve the seismic structural response requirement of the multi-structure British Columbia Hydro corporate headquarters," published in Concrete International, V. 16, No. 1, January 1994.

Richard Smart, formerly of Vancouver, British Columbia, Canada, is now associated with Meinhardt, Ltd., a consulting engineering firm based in Hong Kong.

At the time the paper was written, he was an associate and senior project engineer at Choukalos Woodburn Mckenzie Maranda, Ltd., in Vancouver. Prior to joining Choukalos and Woodburn in 1988, he had been affiliated with other engineering firms in British Columbia, Manitoba, and Saskatchewan.

A native of England and an engineering graduate of Brighton College of Technology in that nation, he was employed by British consulting firms and construction companies before immigrating to western Canada in 1975. In addition to the new headquarters building for British Columbia Hydro, he had been involved in the design of numerous office buildings, hotels, shopping centers, schools, and other major structures in western Canada.

Smart is a member of the Institution of Civil Engineers and Institution of Structural Engineers, both in England.

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

ROBERT E. TOBIN

"for outstanding personal contributions to the formation of the first local ACI chapter in Southern California and to its operation and leadership since 1956."

Robert E. Tobin, of Arcadia, Calif., has been involved in concrete design and construction in Southern California for nearly 60 years. He notes that he is still working full-time as a consultant although he has tried to retire on three occasions.

He will mark the 50th anniversary of his ACI membership in 1997. Tobin was in the initial group of ACI Fellows elected when that position was created by the Institute in 1973.

A former member of the Board of Direction, his previous Institute honors include the Cedric Willson Award in 1979 for his "leadership" and "contributions" relating to lightweight concrete; a Wason Medal for Most Meritorious Paper in 1980 for a paper on flow cone sand tests; the Arthur R. Anderson Award in 1984 for his "encouragement of sound practice" and "effective liaison" in concrete construction; and the Southern California chapter's Sam Hobbs Award in 1975.

He is currently a member of Committees 213, Lightweight Concrete; 221, Aggregates; 304, Measuring, Mixing, Transporting, and Placing, and also serves on the Institute's Capital Campaign committee to raise funds for construction of a new headquarters building. Tobin is the chairman of the western region for this fund-raising effort.

A charter member and one of the founders of the Southern California chapter, he is a former president of that chapter. The Southern California organization was ACI's first local chapter, established in 1958.

Tobin is a former member of the Publications Committee, the Chapter Activities Committee, the Fellows Nominating Committee, and Committees 363, High Strength Concrete, and 523, Cellular Concrete. He is a former chairman of Committee 304.

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 COLVILLE

TIMOTHY L. MOORE

ARTHUR J. MULLKOFF

"for significant contributions and remarkable service as a technical committee member and chairman, especially in the field of masonry construction."

James Colville is professor of engineering at the University of Maryland, College Park, Md., and at the Denver, Colo., convention will complete six years as chairman of Committee 530, Masonry Standards Joint Committee.

A Fellow of ACI, he has been on the faculty at Maryland since 1970 and chaired the Department of Civil Engineering from 1985 until July 1995 when he returned to teaching. He was named to a full professorship in 1979 and served as associate dean of engineering for four years before being elevated to dean.

A native of Scotland, he immigrated to the United States in 1955 and received Bachelor's and Master's degrees from Purdue University. From 1960 to 1963, he was with the Research Institute Laboratory of the National Association of Home Builders and later with engineering firms in the Boston, Mass., area.

In 1968, Colville resumed his education and later earned a Ph.D. in engineering from the University of Texas, after which he joined the faculty at Maryland. In 1976-77, he was visiting lecturer and research fellow at the University of Edinburgh, Scotland.

A founding member of The Masonry Society, his research specialty has been in structural masonry design and construction. Committee 530 is a joint committee with a membership composed of representatives named by ACI, the American Society of Civil Engineers (ASCE), and The Masonry Society (TMS); its primary goal is the updating of masonry design and construction standards, especially the various 530 documents.

His honors include an "Engineer of the Year" award from the Maryland Society of Professional Engineers and an "outstanding paper" award from TMS in 1992.

"for his distinguished service as chairman of ACI Committee 301."

Timothy L. Moore, a Fellow and a member of the Institute for more than 25 years, is with San Diego Gas & Electric. He is senior civil/structural engineer with that utility company.

He formerly was a senior structural engineer and concrete consultant with Gilbert/Commonwealth, Inc., Reading, Pa., before moving to the San Diego utility about four years ago. Moore joined Committee 301 in 1978 and assumed the chairmanship in 1988. Under his leadership, the committee produced a new publication, "Specifications for Structural Concrete for Buildings (ACI 301-96)."

He also serves on Committee 349, Concrete Nuclear Structures, and is a former secretary of that group. He also represented ACI on the Nuclear Standards Board, American National Standards Institute, and has served on ACI's Concrete Materials Research Council.

An engineering graduate of Michigan State University and a native of the Detroit, Mich., area, he was a staff engineer at ACI before joining Gilbert/Commonwealth in the late 1970s.

"in recognition of his long standing dedication and service to the Institute as both a member and ACI employee."

Arthur J. Mullkoff is chief engineer of ACI's Engineering Department and has been an Institute employee since 1984.

As a staff engineer, he works closely with Institute technical committees in the drafting of committee documents, including codes and standards, reports, and guides.

Prior to joining the ACI staff, he was involved in concrete design and construction in the Detroit, Mich., area for nearly 40 years. A Fellow of the Institute, he was associated with several engineering firms in Michigan and also served as vice president of a Detroit steel fabrication company.

A member of ACI since 1956, he was one of the founders of the Michigan chapter of the Institute and served as its secretary-treasurer for seven years in addition to terms as president and vice president. Mullkoff holds engineering degrees from Wayne State University, Detroit, and also served as an instructor in engineering at Lawrence Institute of Technology (now Lawrence Technical University), Southfield, Mich., for several years.

In addition to his work with technical committees, Mullkoff also serves as secretary to the Responsibility in Concrete Construction Committee and is ACI's representative on numerous committees of other concrete-related organizations, including ASTM's Committee A-1, Steel.

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:



Shuaib H. Ahmad



J. Howard Allred



Arnon Bentur



Mikael W.
Braestrup



Paul C. Breeze



Ronald G. Burg



Anthony P. Chrest



Peter H. Emmons



**Dwayne A.
Godfrey**



**Vellore S.
Gopalaratnam**



Antonio J. Guerra



Angel Herrera



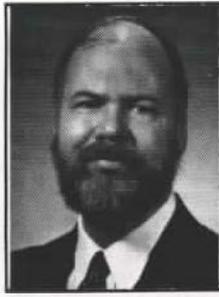
**Vincent
Kazakavich**



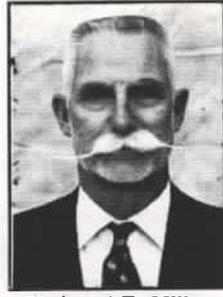
Michael F. Kreger



**Harry B.
Lancelot III**



Michael L. Leming



Richard E. Miller



**Palaniappa
Parmaslvam**



James H. Pielert



A. Fattah Shaikh



**Michael M.
Sprinkel**



D. Gerry Walters

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

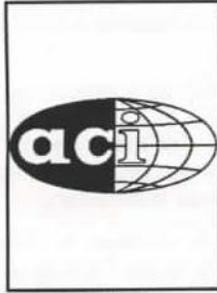
To be announced at the Awards Breakfast

CERTIFICATES OF MEMBERSHIP APPRECIATION

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



**Robert A.
Aquadro**



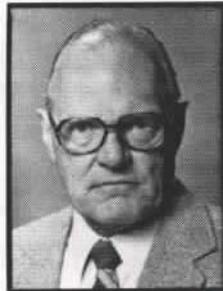
John M. Hayes



Paul Klieger



Walter J. McCoy



William G. Murphy



CONCRETE RESEARCH COUNCIL ROBERT E. PHILLEO AWARD TO

V. MOHAN MALHOTRA

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

V. Mohan Malhotra, an Honorary Member of the Institute, is program principal, Advanced Concrete Technology Program, Canada Centre for Mineral and Energy Technology (CANMET), Ottawa, Canada, and has been with that government agency for nearly 35 years.

Internationally known as a researcher, author, speaker, and conference organizer, he is a former member of ACI's Board of Direction and also served on the Technical Activities Committee. For many years, he has been chairman of the ACI/CANMET steering committee for numerous international conferences and has been editor of more than 15 Institute special publications.

His ACI honors, in addition to Honorary Membership, accorded in 1986 for "enhancing the stature of the Institute and its technical reputation," include the Henry L. Kennedy, Wason Medal for Materials Research, Henry G. Turner, Delmar L. Bloem, and Chapter Activities awards; he also shared the Charles S. Whitney Award in 1990 with other CANMET researchers. In 1993, ACI established a fellowship for graduate studies in materials science research in his name. He was one of the founders of the Canadian Capital chapter (now the Ontario chapter) and formerly served as chairman of the Institute's Chapter Activities Committee.

His research and development efforts over the years have centered on accelerated strength testing, nondestructive testing, superplasticizers, and utilization in concrete of industrial by-products such as sulphur, fly ash, metallurgical slags, and silica fume.

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**

JOHN F. McDERMOTT

"in recognition of his dedicated service on technical committees devoted to supervision and implementation of research."

John F. McDermott, a member of ACI for nearly 32 years, retired in 1993 from USX Corporation (formerly United States Steel) as a senior research consultant at the firm's research laboratory in Monroeville, Pa. Since then, he has been a consultant to USX and other clients.

A Fellow of ACI, he has been a member of Committee 439, Steel Reinforcement, since 1966, and was its chairman for a four-year period ending in 1992. During this period, the committee sponsored convention sessions, produced "Mechanical Connections for Reinforcing Bars, (ACI 439.3R-91)," and "Steel Reinforcement: Physical Properties and U. S. Availability, (ACI 439.4R-89)," and initiated a university research program aimed to define special seismic requirements for mechanical connections of reinforcing bars.

He was also chairman of Committee 408, Bond and Development of Reinforcement, and is still a member of that committee; he is also an associate member of Committee 368, Earthquake Resisting Concrete Structural Elements and Systems.

In 1994, McDermott received a Delmar L. Bloem Award for Distinguished Service as the result of his "profound and continuous service" with ACI technical committees.

He holds Bachelor's and Master's degrees in civil engineering from Carnegie-Mellon University and a Ph.D. from the University of Pittsburgh. After 13 years with structural/civil engineering firms in Pittsburgh and Lansing, Mich., he joined U. S. Steel's research laboratories, specializing in structural research.

As chairman of the Technical Subcommittee of the AISI Committee of Concrete Reinforcing Bar Producers during the 1960s and as a RCRC task committee chair in subsequent years, he led the initiation and monitoring of many significant concrete research programs.

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
1996
Awardees