

NEWS BULLETIN
AN ASSOCIATION OF MEN



OF THE MOLES
ENGAGED IN HEAVY CONSTRUCTION

HOLING

THROUGH

NOVEMBER, 1981

FLUOR and McMURREN to receive 1982 Outstanding Achievement Awards



J. ROBERT FLUOR



WILLIAM H. McMURREN

J. ROBERT FLUOR, Chairman, Chief Executive Officer and President of Fluor Corporation with headquarters in Irvine, California and WILLIAM H. McMURREN, President and Chief Executive Officer of Morrison-Knudsen Company, Inc., with headquarters in Boise, Idaho are the forty-second pair to receive The Moles' Awards for "outstanding achievement in construction." Mr. Fluor the Non Member recipient and Mr. McMurren the Member recipient will be honored at a Dinner to be held on Wednesday evening, January 27, 1982 at The New York Hilton Hotel.

J. ROBERT FLUOR is the son of Peter E. Fluor, late company President and the grandson of the company's founder, John Simon Fluor, Sr. Born December 18, 1921, in Santa Ana, California he graduated from Anaheim Union High School in 1939 and attended the University of Southern California for two and a half years before entering the military

(Continued on Page 2)

WILLIAM H. McMURREN was born at Ontario, Oregon, on October 20, 1927. After a stint in the infantry in World War II, he graduated from Texas A&M with a civil engineering degree in 1950. He was promptly called back into the Army during the Korean War and put his degree to work by teaching engineering at an officer training school

(Continued on Page 2)

J. Robert Fluor

(Continued from Page 1)

in 1942. An Army Air Force pilot, he served during World War II in the Central Pacific theater; and was decorated with the Distinguished Flying Cross and Air Medal. He returned to USC but left again to join the family firm in 1946. In 1952 he was named Executive Vice President of the Corporation and in 1962 he became President and Chief Executive Officer. He became Chairman, Chief Executive Officer and President in 1976.

Fluor Corporation provides engineering, procurement, and construction services to the petroleum, chemical, petrochemical, gas-processing, mining, metallurgical, and utility industries. The company also offers services in offshore drilling, industrial supplies and has interests in oil and gas ventures in the United States and overseas.

John Simon Fluor, Sr., the company's founder was a Swiss carpenter who emigrated to the United States in 1888, worked with his brothers building paper and sawmills around Oshkosh, Wisconsin and in 1912 started his own firm with his sons in Santa Ana, California. That company was incorporated in 1924 with 100 employees and a capital investment of \$100,000. Today, Fluor Corp., is headquartered in an \$81-million management office and engineering complex in Irvine, about 20 miles from where J. Robert Fluor's grandfather started the business. Its 23,500 employees work out of nine major operating companies comprising 144 subsidiaries incorporated in the U.S. and 23 foreign countries. From the initial \$100,000, the company's net worth has grown to \$1.26 billion.

Fluor Corporation's rise to the top of the construction heap owes much to Bob Fluor's long-standing policy of refusing to bid for projects on a fixed-price, lump-sum basis. The firm has negotiated cost-plus work all over the

William H. McMurren

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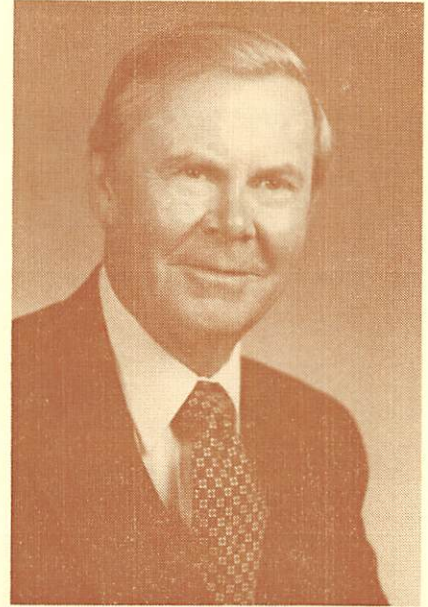
in Virginia. He was discharged as a first lieutenant in 1953.

The son of a California-based construction executive, Bill McMurren gyrogated naturally into the realm of construction after having worked as a youth in almost every sort of field job, from laborer to equipment operator. He joined Morrison-Knudsen in 1955 as an estimating engineer, and, less than 17 years later, in June 1972 he ascended to the presidency of this firm that ranks among the largest construction and engineering organizations in the world. Widely known as "M-K", the company regularly has annual revenues in the billion-dollar range, is listed on the New York Stock Exchange and has dramatically increased earnings to new record highs in each of the past nine years.

Throughout the world, Morrison-Knudsen employs nearly 30,000 people. Among projects now in progress are a 1,200 mile transmission line system in Zaire, extensive contract coal-mining operations and oil-shale development work in the Western U.S.; construction operations at a dozen thermal and nuclear power plants; major tunneling work in Chicago and Boston; a \$261 million program of construction of an enormous Air

(Continued on Page 7)

Guest Speaker



DR. ARTHUR G. HANSEN, Purdue alumnus, distinguished American educator and the eighth President of Purdue University will be the guest speaker at The Moles' forty-second Annual Award Dinner.

Born February 28, 1925, at Sturgeon Bay, Wisconsin, he moved to Green Bay at the age of eight where his father owned and operated a corner grocery store.

In high school, in addition to being a whiz at mathematics, he had a wide range of extracurricular activities which included high school dramatics, work on the school newspaper and a term as his class president. In sports, he lettered as a quarter-miler and hurdler.

He entered the United States Marines in World War II. While he was in the Marines, he was sent to Purdue as an engineering student in the V12 program and in 1946 he received his B.S. degree in electrical engineering. He went on to graduate school to receive a master's degree in mathematics in 1948. After receiving his M.S. at Purdue he continued his graduate studies at the University of Maryland and received his doctorate in mathematics at Case Institute of Technology in 1958.

Before assuming the Presidency of Purdue in July 1971, Dr. Hansen had been President of Georgia Tech where he had also served as Dean of Engineering; and before going to Georgia Tech he was a member of the faculty of the University of Michigan. Prior to joining the University of Michigan he was engaged in research. From 1948 to 1958, he was employed as an aeronautical research scientist at the Lewis Flight

(Continued on Page 7)

FLUOR (Continued)

world—in the Soviet Union on three gas plants, in Thailand on a \$600-million gas pipeline, in the Ivory Coast on a refinery and in China. Fluor was the first foreign constructor to sign a major cost-plus contract in China, for design and procurement on what will be the world's largest copper mine.

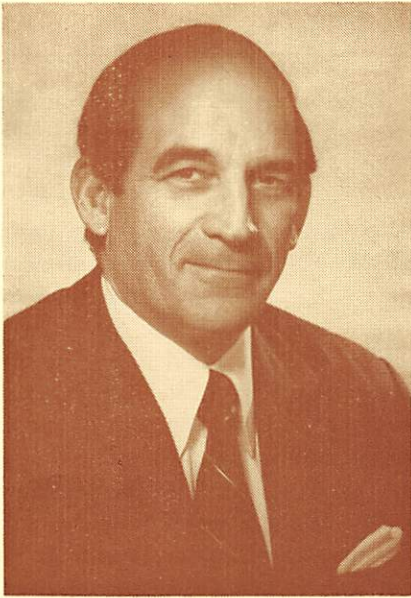
J. Robert Fluor has been accepted into the Military and Hospitaller Order of Saint Lazarus of Jerusalem and was invested as a Knight of Malta in June, 1979, by the Sovereign Military Hospitaller Order of St. John of Jerusalem of Rhodes and of Malta, Western Association.

Other honors which have come his way include: Honorary Doctorate of Laws degree from the University of Southern California and the Asa V. Call Achievement Award from USC. In 1979 he received the Captain Robert Dollar Memorial Award from the National Foreign Trade Council for distinguished contribution to the advancement of American foreign trade and investment. He was Engineering News-Record's 1980 Man of the Year and Financial World Magazine named him Most Outstanding Chief Executive officer for 1980.

Award Presenters

CHARLES E. MERGENTIME, Chairman of the Award Committee has announced that HENRY F. LeMIEUX, Chairman of the Board and Chief Executive Officer of Raymond International Inc., will present the Non Member Award to J. ROBERT FLUOR on January 27; and S. S. (Steve) GREENFIELD, Chairman of the Board of Parsons, Brinckerhoff, Quade & Douglas, Inc., will present the Member Award to WILLIAM H. McMURREN.

Award Chairman



This year, The Moles' Award Committee is Chaired by CHARLES E. MERGENTIME, President and Founder of Mergentime Corporation. A member of The Moles since 1967, Charlie has served as a Committee Member 1971-75; Trustee 1976-78; and Secretary 1978-80.

Graduating from Purdue University in 1953 with a B.S. degree in Civil Engineering, he spent the next two years as an officer of the U.S. Army Corps of Engineers. During that period he was commander of a combat construction company and earned a special commendation from the Republic of Korea for the construction of the steel trestle Yang Po Bridge in Hongchon.

Following his military service, Charlie held responsible positions with Raymond International Inc., before founding his own firm in 1969. Since that time, he has developed Mergentime Corporation into one of the country's leading underpinning and heavy construction companies. One of the first projects undertaken by the newly-formed Mergentime Corporation was on the largest underpinning job ever let in this country: the Washington, D.C. Metro subway system. Included in the project was the underpinning of seven national landmark buildings: among them the National Gallery of Fine Art, Union Station and the U.S. Department of Agriculture building which required jack piles over 90 feet deep. The firm also served as general contractor for construction of two key Metro stations.

Over the last decade the firm has applied its expertise to other subway projects in Atlanta, Edmonton, Alberta, Philadelphia, Baltimore, Boston and New York City.

(Continued on Page 7)

Master Builder

Dead at 92



ROBERT MOSES died on July 29, 1981 at Good Samaritan Hospital, West Islip, N.Y. He was 92.

An Honorary Member of The Moles, he received the organization's first Non Member Award in 1941 for "his vision, planning and accomplishment of the superb system of recreational areas, parkways, bridges and highways of Greater New York". A quote from the New York Times, on his death forty years later, merely emphasizes what The Moles recognized in 1941:

"Robert Moses was, in every sense of the word, New York's master builder. Neither an architect, a planner, a lawyer, nor even, in the strictest sense, a politician, he changed the face of the state more than anyone who was. Before him, there was no Triborough Bridge, Jones Beach State Park, Verrazano-Narrows Bridge, West Side Highway or Long Island parkway system or Niagara and St. Lawrence power projects. He built all of these and more. For 44 years, from 1924 until 1968, Mr. Moses constructed public works in the city and state costing — in a recent estimate adjusting currency to 1968 value — \$27 billion. Mr. Moses built parks, highways, bridges, playgrounds, housing, tunnels, beaches, zoos, civic centers, exhibition halls and the 1964-65 New York World's Fair."

He is survived by his second wife, Mary; two daughters, Barbara Olds and Jane Collins; four grandchildren and six great grandchildren.

• MICHAEL J. UCCI has been appointed a vice president of AMCA International Corporation. In his new position, Mike will concentrate on selective sales and marketing activities for the Company's newly-formed Marine Division which includes the products and services of its IMODCo and Wiley Manufacturing units. He will provide similar services for various of the Company's Koehring product lines including particularly Clyde "Whirley" cranes. Mike has been a member of The Moles since 1962 and currently serves on the Membership Committee.

• KEN SHEPPARD, Consulting Engineer of Anchorage, Alaska, and LIFE-Emeritus Member of The Moles, has been elected to the Board of Directors of the American Arbitration Association. Graduated from Lehigh University in 1926 with a degree in Civil Engineering, Mr. Sheppard has had extensive experience in building and heavy construction projects. These include airfields, fortifications, viaducts, bridges, a lock and dam, and harbor installations. In the early 1960's he helped obtain the franchise to serve Anchorage with natural gas and became Vice President of the company organized to build and operate the 100 mile natural gas pipeline. Since 1968 he has served various clients, including the State of Alaska, as a consulting engineer.

• The 1981 DEEP FOUNDATIONS INSTITUTE Annual Meeting will be held in Mobile, Alabama at the Mobile Hilton, November 18-20, 1981. It is expected to be the most ambitious DFI function to date. A field trip has been planned to the McDuffie Island Coal Handling Facility where a load test program has been completed. This will be a first class chance for DFI members to view anywhere from a 200 ton test on land to a 630 ton test in the water. A documentary film maker has been engaged by DFI to film the pile load test program and all it entails, from the start, with the mobilization of equipment delivered to the job site, driving the reaction and test piles, through to the last pile. Other activities will include—"The Diver" a presentation stating procedures to test and analyze the capacity of piles, method of rehabilitation and the results of current tests; and the Mobile Army Corps of Engineers will be on hand to discuss in great detail the Tennessee Tom Bigbee Waterway.



25-YEAR MEMBERS



GEORGE R. BARLOW was affiliated with Morrison-Knudsen Company, Inc., when he became a member of The Moles in 1956. He had worked his way through the ranks from Engineer to General Superintendent, Project Manager and Chief Engineer of their South American operations. In 1968 he was transferred to San Francisco where he was made Chief Engineer of the Construction Division of International Engineering Company, a subsidiary of M-K. Traveling all over the world for IECO, he retired in 1976 after 42 years with the M-K family. Although George still is active as a Consultant, he now has time to take his wife to some of the places she wasn't able to accompany him when he worked full-time. These trips have included a through trip on the Trans-Siberian Railroad, a trip to China and Inner Mongolia and this spring they went to Indonesia and Sri Lanka. They are committed at this time to a trip to Kenya and South Africa where George expects to shoot some large game (with a camera). They reside in San Rafael which is 12 miles north of the Golden Gate Bridge.

JOSEPH S. DRINANE is a veteran of fifty years in construction having started with Geo. M. Brewster & Sons in 1930. When he became a member of The Moles in 1956 he was Chief Engineer for Elmhurst Contracting. When Elmhurst ceased operations in 1963, Joe went with Frederic R. Harris, Consultants. He retired as a full-time employee from Harris in 1973 but has since kept busy as a Consultant to PRC Harris and several other New York based engineering firms. During his career he has traveled considerably and even as this is being written, he is planning a trip to Trinidad and Venezuela. Joe likes to play golf and plays his favorite course in the Dominican Republic when he visits there several times a year.

FRANK H. PEAVEY was Chief Engineer of South American Operations for Morrison-Knudsen Company, Inc., when he became a member of The Moles in 1956. Affiliated with that firm since 1936, Frank retired in 1978 as a Vice President. He served The Moles as committee member, Trustee, Second and First Vice President and was The Moles' 31st President in 1969.

HENRY A. DRUDING retired from the Port Authority of NY and NJ in June of '69 having first contact with them in 1929. Then on to work for Mason & Hanger-Silas Mason Co., as Manager of Construction Supervision for the firm's New York City contracts. This work included the foundation and platform for the North River Sewage Treatment Plant, Interceptor Sewer Tunnels in Staten Island and Brooklyn along with twin tunnels under the RR Yard into the Bronx Kill. In 1973 he retired again but is still on call as needed by Mason & Hanger. During the period between 1956 when he became a Mole up until his retirement from the PA, he was Senior Resident Engineer on the Lincoln Tunnel, Third Tube and the New Jersey Approach; the George Washington Bridge Lower Level Expansion including all approach work; and the foundations for the World Trade Center. Other miscellaneous assignments which kept Harry busy during these years presented some very interesting problems and he ventures he did more night and weekend work on them than on the major projects he was involved with. Harry still keeps up with the latest methods of tunnelling and foundation work because people still come to him for his opinions.

L. GARLAND EVERIST is currently Chairman of the Board of Directors of Western Contracting Corporation in Sioux City, Iowa. The eldest son of the founder of the company, he became experienced in all phases of heavy construction projects which the firm did in large volume. In 1956 when he became a member of The Moles he was Secretary of Western Contracting and Construction Manager on important tunnel and dam projects. Mr. Everist says that since he has not as yet retired, such activities as traveling for entertainment, engaging in sports or hobbies have not been paramount but he expects shortly to assume a status that will allow for more attention to these programs.

CHRISTOPHER J. FOSTER, a consultant doing business at Christopher J. Foster, Inc., Research and Development, Naval Architects and Marine Engineers. Mr. Foster served on the Membership Committee 1960/62. His son, Chris, Jr., is also a member of The Moles.

EDMUND A. PRENTIS, III was for more than thirty years with Spencer, White & Prentis. He retired in 1976 as a Director of the firm. In 1977 he moved his permanent residence to Delray Beach, Florida although he still maintains a summer home at Westhampton Beach on Long Island. Mr. Prentis has a very active and busy schedule but not in Engineering. He participates in the management of an investment firm and is a Director of several other companies. He and his wife collect Chinese Art. They both enjoy golf and fishing on Long Island and in Florida. Along with his son, Ted, he is the United States Croquet Association National Doubles Champion.

ALBERT E. FORSTER was President & Director of Hercules when he became a member of The Moles in 1956 having joined that firm after graduating from Stanford University in 1925. In 1966 at age 65, mandatory retirement required him to leave Hercules although he remained on the Board of Directors of a number of mutual financial funds and a paper company. Now pushing age 81 he is completely retired and Al says, "it's a good retirement". He and his wife still live in Wilmington. They have a son in New York and a daughter and two grandsons in San Antonio and they visit often.

JACK T. WALLE, a Civil Engineering graduate of New York University, has been affiliated with Thomas Crimmins Contracting Co., for thirty years. Jack has an extensive administrative and technical background in the performance of heavy construction programs. He has been in responsible charge of a broad range of construction assignments which include mass transit, airports and a variety of building structures. During World War II, Jack served in the Pacific Theatre with the United States Army Corps of Engineers and is a Colonel, AUS. (ret.) For The Moles he has served as a committee member, Trustee, Chairman of the Program Committee and currently is serving as Secretary of the Association.



25 YEAR MEMBERS

(Continued)

CHARLES E. CANTINE, a professional engineer has spent his career in the heavy construction industry. He has been a member emeritus since 1968.

THOMAS G. GUERIN, a veteran of fifty-odd years in heavy construction started in the field with the Port Authority on the Goethals and Kill Van Kull Bridges. He worked for Arthur McMullen Company on the anchorages for the George Washington and Triboro Bridges; and the Pulaski Skyway caisson foundations. In 1934 he went with Tully & DiNapoli; worked as Project Engineer on the Triborough Bridge, parkways, highways, grade crossings, power plants and all phases of work performed by that company. He became a member emeritus in 1975 after retirement and Tom says, he now watches the grand children and the grass grow at about the same rate in a nice cozy spot in the hills of Connecticut.

S. EVERETT HUNKIN was President of The Hunkin Conkey Construction Co., of Cleveland, Ohio. At 88, Mr. Hunkin recalls he grew up in the "Mule and slat wagon" days. Over the years the firm performed all phases of construction. One project which, while it was one of their smaller contracts, was the Arlington Memorial Bridge in Washington, D.C., stands as testimony today. The firm, no longer in existence, completed dams, tunnels, bridges, sewage and water treatment plants all over the U.S., and Everett says it was the fifth oldest construction company in the U.S., according to Engineering News-Record. Since retiring in 1965, he lives in Naples, Florida in the winter and upper New York state on Lake Cayuga in the summer. The construction business he knew is gone and forgotten says Everett Hunkin, he saw it in its greatest days.

JOHN C. KING moved to Master Builders, a Division of Martin-Marietta, shortly after becoming a Mole and served as Manager, Federal and State Engineering Services until 1972. From 1972 through 1976 when he retired he served as Assistant Director. He has had numerous assignments as a private consultant with many prominent engineering and contracting organizations. He has travelled and worked in the Far East, "down under", South Africa, South America and Mexico as well as all over

ROBERT E. SAVAGE died on June 19, 1981. Mr. Savage was a representative for Northwest Engineering Company, suppliers of cranes and other heavy equipment. He became a member emeritus in 1964 and in May 1978 was one of the twenty-three members eligible for "life membership" having been elected to membership in 1938. He was a resident of Ft. Lauderdale, Florida from 1970 until his death.

the U.S.A., and Canada. John C. King is the author or co-author of numerous professional papers and articles dealing with preplaced aggregate concrete, concrete repair, and grouting. He also developed and patented two methods for post-tensioning piles.

A. DOUGLAS BURROW spent forty five years in construction in responsible charge for many of those years on building foundations, bridges, highways and other heavy construction work. He is a retired Vice President of Cayuga Construction and was elected a member emeritus in 1974.

EDWARD J. PETRILLO now Chairman of the Board of Yonkers Contracting Company Inc., has been actively engaged in heavy construction since 1928. Over the years, Yonkers has grown and is now a highly diversified organization. With their roots in heavy contracting Yonkers today is a construction corporation meeting challenges throughout the East. Over the last decade, Yonkers has built nearly 600 miles of roads, completed buildings totaling over 160 million square feet, excavated more than 20 million cubic yards of rock and earth and supplied more than 10 million tons of asphalt and aggregate.

A. I. SAVIN currently serves as Chairman of the Board, President & Director of The Balf Co.; President & Director of Savin Brothers, Inc.; and Director of Capitol Pipe Co. Over the past twenty-five years, having pursued the construction industry, including quarrying, concrete pipe, bituminous concrete products, he is currently involved in approximately \$90,000,000 of heavy construction. He is a Past President of the New England Road Builders Association and the Connecticut Road Builders Association. He resides in Bloomfield, Connecticut where his primary hobby is Thoroughbred Breeding and Racing.



R. ADM. EDWARD J. COSTELLO, USNR (Ret.) died on August 5, 1981. He was 81.

Admiral Costello became a member of The Moles in 1965 and was elected a member emeritus after his retirement in 1972. During World War II he was in responsible charge of marine and heavy construction work on Pacific bases; and later performed primarily as a special representative and consultant on marine equipment.

WARREN N. RIKER died on October 3, 1981 at Myrtle Beach, South Carolina where he was a resident for the past ten years. He was 71.

Mr. Riker earned his engineering degree at Stevens Institute of Technology in 1932. He was an employee, Chief Engineer and Vice President of Raymond International for many years. In the 1960's he went with Walsh Construction Company as their Chief Engineer and served as a Vice President until he retired for health reasons in 1971. During his long and varied career he had been in charge of many notable construction projects both domestic and overseas.

For the Moles he served as committee member and Trustee and had been a member emeritus since 1972.

He is survived by his wife, Marjorie; two daughters, Mrs. Donald McAllister and Mrs. David Ackerman; a brother, Elwood and five grandchildren.



LOUIS B. JONES died on January 29, 1981. We apologize for the delay in reporting this but we were only recently notified. Mr. Jones was 69.

Mr. Jones attended Cornell University before entering the United States Navy where he served with the Seabees. Affiliated with Moretrench American Corporation for thirty-five years, he was Vice President in charge of Operations for the East Coast prior to his retirement in 1975. During his long career in heavy construction he was associated with numerous major projects including the World Trade Center, the Verrazano-Narrows Bridge and the Chesapeake Bay Bridge-Tunnel.

He is survived by his wife, Iris and two sons; Louis B., Jr., and Michael.



GLENWAY W. MAXON died on July 4, 1981. He was 96. Mr. Maxon, an Honorary Member of The Moles, received the 1954 Non Member Award in recognition of his "*Ability, Leadership and Accomplishments Notably in the Fields of Public Service, Atomic Energy, Lock and Dam Construction.*" He was founder of the Maxon Construction Company in Dayton, Ohio. The firm specialized in the construction of bridges, dams, power plants and heavy foundations. During the War they built Navy Ammunition depots and in jv built military bases at Guam. The firm also did several projects for the Atomic Energy Commission. He was President of the Associated General Contractors of America in 1951.

ARTHUR CASAGRANDE died in his sleep on September 6, 1981 after a long illness. He was 79.

Dr. Casagrande, an Honorary Member of The Moles received the 1976 Non Member Award for "outstanding achievement in construction". He was recognized at that time for his "*world renowned pioneering as a Scientist, Teacher, Author and Consultant in Soil Mechanics and Foundation Engineering*".

Born in Haidenschaft, Austria in 1902, he came to this country in 1926 and received his United States Citizenship in 1931. His reputation became worldwide in 1936 when he organized the First International Conference on Soil Mechanics and Foundation Engineering. He was, over the years, consulted on many of the world's major construction projects including the Tarbela Dam in West Pakistan.

He is survived by his wife, Erna; two daughters, Sandra and Vivien; a sister, Alix Robinson; a brother, Leo; and one grandchild.



C. WARREN BLACK died on October 12, 1981. He was 83.

Warren was recipient of The Moles' 1967 Member Award; and was recognized for "*his professional accomplishments during one half century devoted to heavy construction excelling as an administrator, engineer and contractor.*"

At the age of 20 Warren received his civil engineering degree from Johns Hopkins University and began his career in construction. He entered the Army in 1918 and was discharged as a second lieutenant from the Army Engineers. He went to work for one of the seven companies subsequently merged to form The Arundel Corporation; and advanced through the years to Chief Engineer to Vice President, Executive Vice President, President and Chairman of the Board, the position he held when he retired in 1966. He remained a Director and member of the Executive Committee for some time after that. During his long career with The Arundel Corporation, the firm completed numerous major projects throughout the Continental United States as sole contractor and joint venturer.

Numerous Awards came his way including the Beaver's Management Award in 1962. After retirement, he lived quietly in his native Baltimore until his death.

He is survived by his wife, Alice; a son, Charles Warren Jr.; a daughter, Mrs. Roger B. Mangles; eight grandchildren; and two great grandchildren.

Award Chairman

(Continued from Page 3)

With nearly thirty years of diversified experience in construction, Charlie is recognized throughout the industry as an innovator. Skilled in the design and adaptation of machinery for developing new construction methods, he is the inventor of the jacked-pile machine which speeded underpinning operations by ten to fifteen times. He pioneered the use of cast-in-place post-tensioned concrete beam systems for underpinning work, and was among the first to employ the pumped-tremie method for concrete placement in deep drilled caissons.

Mergentime's expertise in post-tensioned anchorages has served to rehabilitate several large dams. Working with drilling rigs especially designed to allow the dam to remain in operation during construction, the mile-long Conowingo Dam northeast of Baltimore was repaired; and similar projects were completed at Lake Milton Dam in Ohio and at Brandon Road Lock and Dam near Joliet, Illinois.

Among some of the other types of work performed have been work on sewer treatment plants in New York City, power projects along the Eastern Seaboard, post-tensioning on the Civil and Criminal Court building in Washington, D.C., and the installation of a large diameter outfall pipe on the Delaware River. Currently the company is constructing the concrete substructure and superstructure for a new 700,000 square foot Exxon facility in Western New Jersey.

Notable achievements have brought Mergentime Corporation many honors over the years. Most recent citations include one from the Structural Engineers Association of Illinois for "*a significant contribution to the conception, design and construction*" of an underpinning project in Atlanta, and one from the Association of Professional Engineers, Geologists and Geophysists of Alberta for "*considerable engineering skill and substantial contributions to technological progress*" on the Edmonton subway. The firm's home office won the first citation for architectural merit ever presented by the Hunterdon County (N.J.) Cultural and Heritage Commission for "*its adaptation to the land and the natural environment.*"

Charlie is a registered professional engineer in New York; a Fellow of the American Society of Civil Engineers; a member of the Society of American Military Engineers, the American Public Transit Association, the Association of Professional Engineers, Geologists and



William H. McMurren

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Force engine testing facility in Tennessee; and excavation of an 11-mile section of the Tennessee-Tombigbee Waterway in Mississippi that requires moving almost half as much earth as was removed to open the Panama Canal. The latter contract totals \$270 million and is the largest civil-works award made to date by the U.S. Army Corps of Engineers for a U.S. project.

A steady rise through field and executive echelons of Morrison-Knudsen Company gave Bill McMurren a solid background of experience for his chief executive position. In 1955-57, he was office engineer of Beardsley Dam Project in California. By 1960, he was manager of construction of one of the nation's largest Atlas missile bases in Oklahoma and, in 1962, he became project manager of an even larger Minuteman missile base near Sedalia, Missouri. He was promoted in 1964 to Assistant District Manager of Morrison-Knudsen, based in Los Angeles, and was elevated to the position of Missile & Space Division Manager in 1965. A year later, he became manager of the company's Eastern District, based in New York. He was elected Vice President in January 1968; was named a Director in April 1968, and was appointed Vice President in over-all charge of domestic operations in May 1968, assigned to company headquarters at Boise. In September 1969, he moved up to Executive Vice President and in June 1972 was elected President and Chief Executive Officer.

Mr. McMurren served as a director of The Society of American Military Engineers; and was 1981 President and director of The Beavers. He is a member of the American Institute of Constructors, The Conference Board, and The Newcomen Society of North America.

Geophysists of Alberta; a director of the Hunterdon County National Bank of Flemington, New Jersey; and has authored numerous articles published in technical journals. In 1980 he was chosen as Purdue University's "Distinguished Engineering Alumnus."

Charlie and his wife, Cynthia have four children. Stephen is a student at Purdue University, Andrea holds a position with an art museum in New York City, and their twins, Michael and Valerie are high school seniors. They live on a two hundred acre farm in New Jersey where Charlie raises purebred cattle.

Guest Speaker

(Continued from Page 2)

Propulsion Laboratory, National Aeronautics and Space Administration in Cleveland, Ohio. In 1958-59, he was head of the nucleonics section of the Cornell Aeronautical Laboratory, at Buffalo, New York. He has been a consultant for a number of the nation's industrial firms and is the author of two books and author or co-author of about forty technical papers in engineering and applied mathematics.

Dr. Hansen is a member of the Council of the National Academy of Engineering, the Academic Advisory Board of the United States Naval Academy, the Board of Trustees of the National Fund for Minority Engineering Students, the American Society for Engineering Education, and the American Association for the Advancement of Science. He is Chairman of the Advisory Council of the Electric Power Research Institute and the Gas Research Institute Advisory Council. He is a distinguished member of Phi Kappa Phi, a member of Sigma Xi, Tau Beta Pi, Eta Kappa Nu, and an honorary member of Pi Tau Sigma, ANAK, Omicron Delta Kappa, Phi Eta Sigma, Kappa Kappa Psi, and Alpha Kappa Psi. He was awarded the Leather Medal by Sigma Delta Chi in 1977. He holds honorary degrees from Purdue (doctor of engineering 1970) and Tri-State College, Angola (doctor of science, 1972). He was voted Engineer of the Year, City of Atlanta (1970), Indiana Engineer of the Year (1979) and Purdue Distinguished Alumnus (1979).

He is the first alumnus to serve as Purdue's President and only the second engineer in the University's 109-year history.

● ASCE's 1981 Construction Management Award goes to ALFRED C. MAEVIS, retired assistant postmaster general in charge of the U.S. Postal Service's Real Estate & Buildings Department in Washington, D.C. AL was cited "for his leadership in the promotion of construction management concepts in public works administration". A member of The Moles since 1952, he has recently been elected a member emeritus. Extremely active in ASCE affairs, Al served as vice president of the Met Section and as chairman of the Construction Division's executive committee of the Rapid Excavation and Tunneling Conference for a number of years.

CLAMBAKE 1981 - COLONIE HILL

