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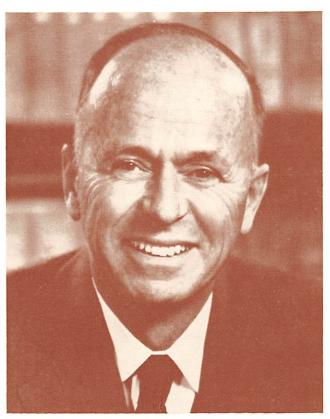
OF THE MOLES

ENGAGED IN HEAVY CONSTRUCTION

THROUGH

NOVEMBER, 1976

BECHTEL and CRIMMINS selected for '77 AWARDS



STEPHEN D. BECHTEL, JR.



ROBERT CRIMMINS

ROMINENT names from the past will again be honored by The Moles this January 26th but it's a new generation receiving these honors. Stephen D. Bechtel, Jr., Chairman of the group of Bechtel companies and Robert Crimmins, President of Thomas Crimmins Contracting Company are the Non Member and Member recipients for The Moles' 1977 Awards for "outstanding achievement in construction". Steve's father received the Award in 1952 and Bob's father received the Award in 1947.

STEPHEN D. BECHTEL, Jr. is a native Californian. He earned his B.S. in Civil Engineering from Purdue University in 1946 and an M.B.A. in Business in 1948.

He was first employed by one of the Bechtel companies in 1940. Working his way through the ranks of the pipeline division, he was elected Vice President and Director in 1952, Executive Vice Pres-

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ROBERT CRIMMINS received a B.A. Degree from Harvard University in 1938 and a B.S. in Civil Engineering from Columbia University School of Engineering in 1942. During World War II he served with distinction as Captain with the United States Army Combat Engineers in the Pacific.

The firm Bob heads has been constructing foundations in and around New York City since 1848.

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Stephen D. Bechtel Jr.

(Continued from Page 1)

ident in 1957, Chairman of the Executive Committee in 1959, President 1960 and Chairman 1973.

As the leader of one of America's outstanding construction organizations he has been involved with the construction and engineering of projects of all sizes and types including nuclear, fossil and hydro-electric power plants, roads, tunnels, chemical plants and refineries, pipelines, harbors, rapid transit systems, and mining developments.

Steve Bechtel, Jr., has been invited by Presidents of both political parties to serve the nation with assignments on committees involving sociological and environmental issues related to the construction industry. In 1967 President Lyndon Johnson appointed him to the President's Committee on Urban Housing; in 1970 President Richard Nixon appointed him to serve as a member of a National Industrial Pollution Control Council and in 1971 to the National Commission on Productivity. He was also Chairman of the Organizing Committee for the 50th World Energy Conference held in Detroit in September of '74.

Mr. Bechtel holds an Honorary Doctor's Degree in Engineering from Purdue, the Distinguished Alumnus Award from Purdue and the Ernest C. Arbuckle Award for Distinguished Alumnus from the Stanford Graduate School of Business.

Award Presenters

DANIEL M. LAZAR, President of Cavuga Construction Corporation and First Vice President of The Moles has been selected by the Award Working Committee to present the Member Award to ROBERT CRIMMINS on January 26th. Mr. Lazar and Mr. Crimmins are close friends and associates and have joint ventured on major projects in and around the Metropolitan area, HENRY C. BOSCHEN, Director and former Board Chairman of Raymond International Inc., will present the Non Member Award to STEPHEN D. BECHTEL, JR. Both Mr. Lazar and Mr. Boschen are past recipients of The Moles' Member Award.

Award Chairman



G. R. "BUD" GRAY, Vice President and Area Manager for S. J. Groves & Sons Company, is Chairman of The Moles' Award Committee this year.

Bud was born in Wadena, Minnesota and received his early education at Dunwoody Institute. He earned his Civil Engineering degree from the University of Minnesota in 1939 and thereafter began his construction career.

Starting with Alexander Construction Company of Minneapolis he came up the ranks to Executive Vice President of the firm. He spent two years in business for himself in Pennsylvania and in 1962 joined S. J. Groves, prominent Minneapolis based heavy construction firm.

Bud has supervised projects for Groves throughout the Eastern area and has served as the firm's Vice President and Area Manager since 1964 headquartered in Woodbridge, New Jersey.

For The Moles he has served as committee man, Trustee, Chairman of the Program Committee, Vice Chairman and now Chairman of the Award Committee. He has been a member of the Executive Committee since 1972.

Mr. Gray is also extremely active in the Associated General Contractors Association both at the National and State level having served as President of the New Jersey Chapter during the period from 1973/74. Other Industry related organizations which he devotes his time to are: the Middle Atlantic Construction Management Association of which he is Vice President and Director; Vice President, New Jersey Citizens' Highway

Robert Crimmins

(Continued from Page 1)

Through his ingenuity, the company has been expanding its heavy construction activity to include all aspects of subway construction, pollution control projects, highway and utility/power plant work. At present they are joint venturing on the Bowling Green Station, a portion of the 2nd Avenue Subway and the 63rd Street Subway, Jamaica Bay Treatment Plant and the Yonkers Treatment Plant. Under Bob's leadership the company has provided economical solutions of foundation problems confronting countless owners, architects and engineers. A great majority of the major office building foundations in and around New York City since 1950 have been constructed by Thomas Crimmins Contracting Company. These include: all the Park Avenue Buildings over the Grand Central Terminal area; Penn Station/Madison Square Garden Complex; CBS, Celanese, Astor Plaza, U.S. Steel; as well as Shea Stadium; and National Airlines Terminal Foundation at JFK.

Crimmins is a highly respected name throughout the "industry" and in The Moles' history. Not only did Bob's father, Tom receive the Member Award but in 1966 Holmes Crimmins, Bob's cousin, received this coveted Award. Holmes also served as 1955 President and was until his recent retirement one of the organization's most active and ardent supporters.

Bob too has served The Moles well having been committee man, Trustee, Secretary, Second and First Vice President and in 1967 he was President.

A registered professional engineer in New York and Connecticut, Bob is a member of the American Society of Civil Engineers; Columbia University Engineering Council, Egelston Associate; Past President, Harvard Engineering Society; Trustee, Concord Academy; Governor, New York City Building Congress; Arbitrator, American Arbitration Association; Chairman of the Committee on Securities of the American Society of Civil Engineers and is author of the "Construction Rock Work Guide".

GRAY - Continued

Committee; Director, New Jersey Alliance for Action; Trustee, Laborers Safety, Education and Training Fund; and Arbitrator, American Arbitration Association.

He served with distinction during World War II with the Corps of Engineers for forty months and was discharged with the rank of Captain.

· · A Moment of Silence · ·



CHARLES M. DUKE, Maj. Gen. U.S.A. (Ret.) died August 21, 1976 in a nursing home in Fairfax, Virginia, after a long illness. He was 59.

General Duke was a native of Jacksonville, Texas and received a BS degree from the United States Military Academy in 1939. He was commissioned a second lieutenant in the Corps of Engineers. In 1947 he received an MS degree in Civil Engineering from the California Institute of Technology, Pasadena, Calif. He was a graduate of the Command and General Staff College, Fort Leavenworth, Kansas; the Armed Forces Staff College, Norfolk, Va., and the Industrial College of the Armed Forces, Washington, D.C.

At the time of his retirement in 1971, General Duke was Division Engineer of the North Atlantic Division and responsible for the Corps' civil works activities in eleven Middle Atlantic States.

Prior to assuming the duties of Division Engineer he had served sixteen months in the Republic of Vietnam where for 8 months he served as Commanding General of Engineer Troops and Chief Engineer, United States Army, Vietnam.

He served as Executive Officer of the Eastern Ocean District and as the New York District Engineer and was missiles project officer in the Office of the Chief

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WALTER L. SCHLAGER, JR. died of cancer at his home in Plandome, N.Y., on August 4, 1976. He was 58.

Mr. Schlager was President and General Manager of the Long Island Rail Road until he relinquished the post last July because of failing health.

Mr. Schlager was a native of Scranton, Pa., and had been with the transit Authority since 1954. He began his career as an apprentice in the engineering department of the Pennsylvania Railroad in 1940 after graduating from Penn State University with a degree in Civil Engineering.

After serving in the Navy from 1944 to 1946 he worked in Scranton in general contracting and as a civil design and structural engineer until 1954 when he joined the Transit Authority in New York as head of its maintenance of way department advancing through several positions to become General Manager in 1963. He was named Executive Officer for Operations and Maintenance of the Transit Authority in March 1968 and held that position until his appointment as President of the Long Island Rail Road.

Mr. Schlager was elected to membership in The Moles in 1968. He was a member of the New York Society of Professional Engineers, the National So-



FRANK L. KELLY died at Eastern Long Island Hospital on July 17, 1976.

Mr. Kelly was associated with Colonial Sand & Stone for forty-three years. He retired as Executive Vice President and member of the Board of Directors in 1971. During his long career of furnishing materials to heavy construction firms and performing sub-contracts, he was involved in many of the subway and tunnel jobs in and around the Metropolitan area.

A member of The Moles since 1944 he received his 25 Year Certificate in 1969 and became a Member Emeritus in 1972.

He was a trustee of the Welfare & Pension Funds of the International Union of Operating Engineers until a short time prior to his death.

Mr. Kelly is survived by his wife, Helen; three sons, Frank Jr., Raymond and Lawrence; a brother and five grandchildren.

SCHLAGER - Continued

ciety of Professional Engineers, the American Engineering Association and the American Railway Standards and Management Association.

He is survived by his wife, Mary Louise; a son, Walter III; two daughters, Mary Louise and Susan; and a brother Charles.



RUSSELL C. BALL succumbed to a heart attack on July 3, 1976 at New Rochelle Hospital. He was 71.

Mr. Ball headed the Eastern Division of Construction Aggregates Corporation. He was Vice President and Member of the Board of Directors of this Chicago based firm until his retirement eight years ago.

A native of Chicago he served forty-two years with Construction Aggregates. Mr. Ball was involved in forming land via the Sensibar Method along the Chicago shoreline and the foundation of Chicago's Field Museum. The development of Orchard Beach was his first project in the New York area followed by foundations at LaGuardia Airfield, the Cross Island Parkway, East River Drive, Hutchison River Parkway, the Throgg's Neck Bridge approaches, improvement of the Coney Island Beach and the foundations of the Tappan Zee Bridge and Co-Op City.

Mr. Ball supervised the work performed on the "man-made" islands for cable anchorage and the tube trench excavations and backfill for the Chesapeake Bay Bridge and Tunnel. During World War II he was in Surinam direting work in channel dredging for ALCOA to facilitate the transportation of aluminum for the war effort. For Bethlehem Steel Corporation he performed the investigation for an ore loading site and navigation channel in the Orinoco River making the original survey of that river; and for the Government of Venezuela he was involved in the channel deepening project at Maracaibo.

He is survived by his wife, Catherine; a daughter, Catherine; three sons, Russell C. Jr., William G., and Donald J.; two sisters; two brothers; and ten grand-children.

14 RECEIVE TWENTY-FIVE YEAR CERTIFICATES

A. D. "BARNEY" HUNTER, Commodore CEC-USN (Ret.) has served as Deputy Chief of the Bureau of Yards & Docks and Deputy Chief of Civil Engineers for the United States Navy; Commanding Officer of Naval Construction Battalion Center at Davisville, Rhode Island; Public Works Officer and Officer in Charge of Construction of the 11th Naval District at San Diego, California. He retired from the U.S. Navy in 1959 and formed his own business as a "Consultant" and has had assignments in the U.S.; Central and South America; and Southeast Asia in particular Vietnam, Thailand and the Philippines. He has his "home base" in Washington, D.C. Barney is a familiar face in the Industry and at all The Moles' functions. He served as Sergeant-at-Arms during 1974 for The Moles and has been a member of the Executive Committee: Award Committee and currently serves on the Finance Committee.

DUKE - Continued from Page 3

of Engineers in Washington, D.C., with responsibility for coordination of Corps' support of guided missile systems. He served with distinction as the Engineer Commissioner of the District of Columbia during the period from July 1963 through December 1966.

The General's decorations included: the Distinguished Service Medal, the Legion of Merit, the Bronze Star Medal, and Air Medal with Oak Leaf Cluster and the Army Commendation Medal. His foreign Awards included: the Nicaraguan Medalla de Distincion, the Republic of Korea's Order of Military Merit, and three Republic of Vietnam decorations: the National Order, the Military Merit Medal and the Armed Forces Honor Medal.

General Duke was elected a member of The Moles in April 1970 and served on the Finance and Award Committees for several years. He also served as President of the New York City Post of the Society of American Military Engineers.

He is survived by his wife, Vernice; a son, Charles M. Jr.; a daughter, Allyson; a brother, William and a grandson.

ALBERT L. REES retired from Transit-Mix Concrete Corporation in 1969. Prior to that time he was actively engaged in the construction and maintenance of docks and structures of several Transit-Mix plants and on various projects for contractors regarding the determination of concrete mixes and placing of concrete. Mr. Rees became a member emeritus several years ago and now resides at Margate, Florida. Having travelled extensively throughout the United States and Europe, now at 82 he is content to stay at home enjoying the state of "retirement".

D. G. "JACK" Le TOURNEAU has worked and lived exclusively in New Jersey during the twenty-five years he has been a Mole member. He was engaged in construction as Chief Estimator and Engineer for S. J. Groves & Sons and later for Sam Braen Construction until his retirement in 1970. Prior to that time, Jack worked on the 53rd Street Tubes under the East River; the Suspension Bridges - Mt. Hope in Rhode Island; Bucksport and Deer Isle Bridges in Maine; and the Thousand Islands Bridge between New York and Canada. Jack also performed work at Fort Dix and Oak Ridge on railroad, airport and plant construction. Jack says he is enjoying every moment of his retirement at his home in North Plainfield, New Jersey. For The Moles he served as committee man; Trustee and was Chairman of the Program Committee for three years.

EDWARD P. MEEHAN is Vice President of the Vanguard Construction Corp. For the past twenty-five years he has been engaged principally in the construction of Water Pollution Control facilities in the northeast United States and Puerto Rico. He has just completed an Industrial Waste Treatment Plant for joint use of numerous pharmaceutical companies on Puerto Rico's north shore; and repairs to the Main Water Storage Dam for the San Juan area. Mr. Meehan resides in Larchmont, New York; and for relaxation he plays tennis and travels extensively.

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25 YEAR MEMBERS

(Continued)

CHARLES S. DAVIS was Senior Vice President and Manager of the Construction Division of Utah Construction and Mining Co., when he became a member of The Moles in 1951. At that time he was responsible for the construction of dams, tunnels, shafts, and industrial plants in France, Greece, French Africa, Brazil, Peru, Ecuador, Australia, Tasmania, Canada, Alaska and Pakistan as well as the company's domestic projects. In 1960 he joined the Perini Corporation and was elected a Vice President. He directed that company's overseas projects for the next five years and then carried on as an independent consultant for several years. Recently, in order to slow down a little and spend more time at home, he became interested as partner and President of the Piazza Paving Co., in San Jose, California. His residence is in Palo Alto, California.

ROBERT E. WHITE has been affiliated with Spencer, White & Prentis, Inc., since graduating from Harvard Engineering School in 1934.

He has worked on the Mississippi River locks and dams; New York City subways; underpinning and foundations; caissons, slurry walls, cofferdams and assorted geotechnical jobs. Mr. White was Project Manager on the underpinning and shoring of the White House in 1950 one of his more memorable jobs. He won the A.P. Greensfelder Construction Prize for his paper entitled: "Pretest Tiebacks and Drilled-In Caissons" and is the inventor and U.S. Patent holder on Pretest Tie-backs. He has lectured on slurry walls as well as other subjects before various engineering societies and engineering schools in the United States and abroad. Spencer, White & Prentis has performed five major slurry wall contracts in the past dozen years. Active in the American Society of Civil Engineers he has served as Chairman of Foundations and Soil Mechanics Division of the New York Met Section: Trustee of Met Section; and is currently Chairman, Committee on History and Heritage of the Met Section. He is also a member of Harvard Engineers & Scientists; and the United States Committee on Large Dams.

EDWARD G. JOHNSON was Secretary-Treasurer of The Arthur A. Johnson Corporation when he became a member of The Moles. He served as Vice Chairman and Chairman of the Award Committee: Trustee and Treasurer for The Moles during the period from 1953 through 1958. In 1962 he became a Member Emeritus when he no longer participated in heavy construction activities. In 1971 he retired completely and now spends about 5 months of the year in Watch Hill, Rhode Island and the balance of the year in Delray Beach, Florida. Ned and his wife relax and enjoy their days playing a reasonable amount of golf, swimming or walking the beach, reading and a little

CHESTER W. CUNNINGHAM tells us he still remembers the day he came to New York when he was accepted as a member of The Moles. "It was a terrible snow storm in March and I had to go to Cornell where my son was graduating in engineering. The snow held up the train and I didn't get back to New York until ten that night of The Moles' Dinner so was only there for the last part of it. I was very happy to become a member of The Moles and have always enjoyed this distinction." Mr. Cunningham has always been in construction. Condon - Cunningham Co. was sold to his employees when he reached the age of 72. It was later liquidated. The Cunningham-Kiewit Co., which performed river work was finally liquidated to Peter Kiewit his partner. Mr. Cunningham is a Director in Foster-Smetana Co. and until a year ago was Chairman of the Board. He is currently Vice Chairman. He and his wife spend the winters at their home in Arizona and summers in Omaha.

WALTER F. CONLIN, SR. was affiliated with Turner Construction Company for many years as a Project Manager. In 1951 when he became a member of The Moles he was supervising construction of a New York Port Authority Bus Terminal and then went on to "Appliance Park" in Louisville, Kentucky for General Electric. The latter was a fiveyear project built at a cost of \$200,000,-000.00. Walter retired in 1964 and is now a "Member Emeritus". He and his wife toured Europe in 1967. They reside in Framingham, Massachusetts and have fourteen grandchildren and one greatgrandchild. His son, Walter Jr., is also a Mole Member.

JOHN E. DAVIDSON was affiliated with Massman Construction Company, a prominent heavy construction firm headquartered in Kansas City, Missouri, as a Vice President when he became a member of The Moles. During his long construction career he has been connected with other firms such as The Arundel Corporation: Utah Dredge and Harrison Construction, Mr. Davidson became a "Member Emeritus" in 1970 and lives presently in Redmond, Washington. His main preoccupation now is counselling small businesses, in particular young contractors, for SCORE of The Small Business Administration. He and his wife also do a little gardening, a little traveling and a great deal of reading; and jog three mornings a week at Capri, under medical supervision.

GERARD M. GAUSSA has spent his entire adult life in the construction field after earning his Civil Engineering degree from Manhattan College. 29 of these were spent with the firm of Johnson, Drake & Piper, executing contracts for bridges, highways and the like. Jerry was Manager of that firm's foreign work in Africa for the Army Engineers and in the Middle East which involved every type of construction including hospitals, airports, ordinance, repair depots, salvage of scuttled ships, the rebuilding of a marine repair base and oil storage depots. After World War II, Jerry was Chairman of a joint venture doing dam construction in Ohio and later in charge of the New York Metropolitan area on State Highway construction for that firm. When he resigned his Officership in JDP in 1963 he formed a Construction Consulting firm and has been supervising construction loans all over the United States for several prominent banks; and for Insurance Companies working on Bond Defaults. He is a Professional Engineer, a Fellow of the American Society of Civil Engineers and an arbitrator of the American Arbitration Association.

OLIVER MAGGARD was representing Clyde Iron Works supplying hoists, derricks, whirleys and other equipment to the construction industry when he became a member of The Moles. Mr. Maggard has been a "Member Emeritus" since 1962 and resides in Lake Wales, Florida.

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25 YEAR MEMBERS

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W. J. "JOE" GREEN was Vice President of S. J. Groves & Sons Co., before retiring in 1972. During the twenty-four years he was with Groves he travelled throughout the country. In 1951 he was Groves representative for the joint venture of Kiewit, Groves, Johnson, and Condon - Cunningham which constructed the Thule Air Force Base in Greenland as well as other bases and early warning installations. For some time Joe was in charge of the Groves' New York office and resolved many construction claims successfully for the company. Joe worked on the Anthony Meldahl Locks on the Ohio River and during 1962 to 1966 he worked at the Woodbridge, New Jersey office until he was called back to the home office in Minneapolis where he continued resolving claims for the firm. Joe and his wife, Betty live in Paradise Valley, Arizona now except when travelling around the country visiting their twenty-six grandchildren. During College, Joe was blocking back for Red Grange and he recently visited Champaign, Illinois for the reunion of the team of '25. Each year he and his wife go to an officers' reunion of the men who helped build the Ledo Road in Burma during World War II. As a Colonel in the Corps of Engineers he was in field charge of that operation as Road Engineer. Though trying not to keep too busy, he still does a little claims consulting for various companies these days. For The Moles, Joe served as committee man for many years; three years as Trustee and was Vice Chairman and Chairman of the Award Committee.

WILLIAM J. HUGHES is President of Hughes Bros., Inc., specialists in marine difficulties. Using a fleet of over 100 various types of barges, derricks and tugs, this firm serves contractors in their difficult water work. As a contractor they have laid several power cables across various water ways up to 7 miles in length. Over the years Bill has designed subaqueous drilling equipment and executed large contracts throughout the world. A familiar face at all The Moles' functions, Bill has served the association on special committees and as a Trustee during the period from 1965 through 1968.

Education Committee Activities

Student Awards

In addition to those recipients published in the July issue of Holing Through, three more student engineers have been named for the 1976 Awards. They are: John Gregus from Lafayette, James R. Kee from New Jersey Institute of Technology, and Daniel J. McKessy from Manhattan College. A total of eleven Awards have been approved this year and invitations to all recipients have been issued to attend the November 3rd Dinner in order that they can become acquainted with The Moles' membership and learn more of the construction industry.

RICHARDSON feted by Engineers Club of Boston

A black tie stag dinner was held on September 13th at the Sheraton Boston Hotel sponsored by The Engineers Club of Boston in honor of CHARLES A. RICHARDSON their retiring President. Mr. Richardson had served as President continually since 1963. The testimonial was attended by many Moles members among them: A. K. Burnham, Sim Crews, Bob Crimmins, Bud Gray, Charlie Guild, Lou Hall, Bill Hughes, Dan Lazar, Henry LeMieux, Phil Miller, Jack Mc-Kinney, Jack Murphy, Gerry Neumann, Herb Savin, Peter Volpe, Dave Perini, Irv Huie, Chuck Edgar, Al Johnsen, Morse Klubock, and Eric O'Neill. Mr. Richardson was recipient of The Moles' 1974 Member Award for Outstanding Achievement in Construction and served as President of The Moles during the period from May 1, 1974 to April 30, 1975.

• RUBE SAMUELS, past president of The Moles and Vice President and Chief Engineer of Thomas Crimmins Contracting Co., spoke recently at a Rock Excavation Seminar given by the Met Section Foundation & Soil Mechanics Group of the ASCE. Rube's topic was "Rock Engineering Problems Distinctive to New York City."

- Responding to a request at The Moles' office from Bucknell University, Charter Member, BOB MAYO, recently gave a talk on tunneling.
- Mole Member, GEORGE J. TAMARO, Vice President and Chief Engineer of ICOS Corporation of America is expected to present the Student Award to Dan McKessy at an ASCE Student Chapter Meeting at Manhattan on December 1st.
- CHARLES GOULD presented The Moles' Student Award to John Gregus at the Lafayette College Awards' Dinner held on October 27th. Charlie is Senior Vice President of the Mergentime Corp., performing heavy construction projects, primarily subway, tunnel and power plants, throughout the United States and Canada.
- GUS FLEISCHER, is scheduled to give a slide presentation and talk at an ASCE Student Chapter Meeting at Cooper Union on November 23rd. Mr. Fleischer is the Project Engineer for GMG Constructors performing work on the rock tunnel connected with the portion of subway at 63rd Street and Central Park.

1976 Clambake

Once again the weatherman was in our corner when over one thousand Mole members and their guests gathered at Colonie Hill for the Annual Clambake.

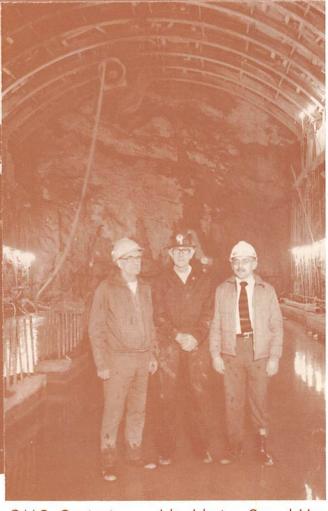
Free beer was served outdoors and at lunch and other beverages flowed throughout the day and evening. The food was, as always at Colonie Hill, excellent and everyone enjoyed the outdoor activities and visiting with their friends and colleagues. Among the attractions, the Wheel of Fortune Drawings received much attention and the winners of the two Polaroid SX70 Cameras were John Donargo and Stew Davis. Photographer, Marty Ostergaard's Montage on page 8 depicts better than any words, the good time had by all who attended.



Perine North River Associates — Charles Edgar, Project Manager. 28 Acres of Sub Structure on 2300 - 42" Caissons for North River Water Pollution Control Project.



Oakwood Beach Constructors — Paul DeMarco, Project Manager. S-Curve in section of 10' x 6200' Soft Ground Sewage Tunnel, Staten Island, New York.



G.M.G. Constructors — John Johnston, General Manager. Holed through 45' x 45' to 45' x 90' by 1200, Rock Subway Tunnel, E. 63rd. Street, New York City. E. Casey, T.A., E. Plotkin, Res. Mgr.

