

NEWS BULLETIN

AN ASSOCIATION OF MEN

HOLING



OF THE MOLES

ENGAGED IN HEAVY CONSTRUCTION

THROUGH

ROOM 50 • FLOOR I-M • THE BILTMORE • NEW YORK, N.Y. 10017

JULY, 1966

1966 Annual Business Meeting



By passing gavel, President Richard E. Mynatt installs Henry C. Boschen as President.

The Moles' Annual Business Meeting and Dinner was held on Wednesday, May 4th in the Grand Ballroom of the Biltmore Hotel. 230 members were present to greet the new members elected to membership; congratulate the officers to be installed for the 1966/67 year; conduct the business of the Association and to fraternize with old acquaintances and make friends.

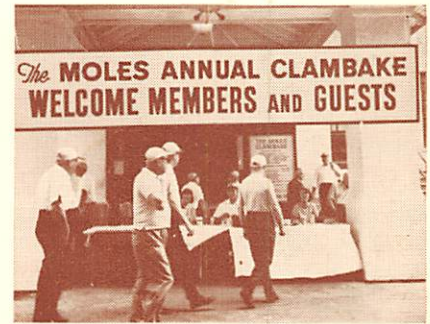
As the cocktail hour started at 6 o'clock many old and new faces passed the registration desk, picking up their members' badges, and proceeded into the Fountain Court for refreshments. The call for dinner was at 7 o'clock. After the delicious roast beef dinner, the members were in a congenial mood when the Annual Meeting was called to order by President Richard E. Mynatt.

Dick arrived by jet from Seattle, Washington just in time to preside at the meeting; to greet the members for the last time as President of The Moles and to install President Boschen and the other officers and trustees.

MOMENT OF SILENCE — In tribute to those who had passed away since last year's meeting, Dick requested observance of a moment of silent prayer for beloved departed members: Carl E. Beam, W. C. G. Church, John C. Curtis, Rodman B. Doremus, Robert Dunlap, George Freeman, G. G. Greulich, Edward J. Hagerty, Joseph J. Harrington, William V. McMenimen, Joseph Meltzer, Louis J. Newburg, Frank Reynolds and Richard P. Stokes.

Of the 24 new members elected to membership, 19 were present. A photo of those present and a listing of the entire 24 together with a brief synopsis of their accomplishments is presented on page 7.

OFFICERS AND COMMITTEE CHAIRMEN REPORT — Retiring Treasurer, Edward G. Armitage presented a statement of the status of the association's finances for the 1965/66 year. Receipts totaled \$89,210; expenditures totaled \$86,656; and the new fiscal
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THE MOLES' ANNUAL CLAMBAKE will be held Tuesday, August 9th, at the New York Athletic Club, Summer Club House, Travers Island, Pelham, New York.

Registration starts at 12 noon.

Luncheon served from 12:30 to 2:00. Softball Game, N.Y.C. Dept. of Public Works vs. The Moles competing for the Presidents' Cup. Game time 2 P.M.

There will be outdoor activities from 1:30 to 4:30 including: Alley Cats, Basketball Toss, Bocci, Golf Pitching, Horseshoes and Spike Driving — and prizes for the winners.

The outdoor and indoor bars will be open for refreshments. Bridge tables on the patio will be occupied with the usual exciting games. Swimming pool and lockers will be available for a small fee.

Beer will be served free at convenient locations throughout the day, at luncheon and at dinner.

Shore Dinner will be served promptly at 6:00 P.M.

At 8 P.M. under The Big Top, prizes will be awarded and the Presidents' Trophy will be presented to the Hon. William C. Mattison, Commissioner of Dept. of Public Works, City of N.Y. or to President, Hank Boschen, of The Moles, whichever team wins the game.

The Big Show will get under way after that with plenty of Comedy and Girls.

All the fun and entertainment of prior years have been retained and examined for improvements. A. K. "Burny" Burnham, Jr., serving his first year as Program Committee Chairman and his committee promise that no thought or expense has been spared to make this year's Clambake the best ever.

Annual Meeting

(Continued from Page 1)

year started with \$7,173 cash on hand. Ed said, "Tonight, in retiring after serving three years as your Treasurer, I want to tell you what a wonderful, happy experience it has been and to assure you that I stand ready to do whatever I can in the best interest of The Moles in the future."

Secretary, Fred L. Doolittle, reported concerning the activities of his office: "During this past year your secretary has arranged for and kept the records of five Executive Committee Meetings and has carried on the correspondence of the Association. I look forward with a great deal of pleasure to serving another year."

Award Chairman, Howard Gould, spoke glowingly about the Award Dinner held on January 26, 1966 and commended the Award Committee for their attendance at meetings and general cooperation and the final selection of the two Award Recipients, George H. Atkinson and A. Holmes Crimmins.

Alfred H. Korsen, Chairman of the Membership Committee, reported on the activities of his committee and gave the status of the membership as of May 1, 1966 as follows: Active Members 477, Emeritus Members 79, Honorary Members 31 and Founder Members 3, Total Membership 590.

D. G. (Jack) LeTourneau, retiring Chairman of the Program Committee, was unavoidably absent that evening and A. K. Burnham, Jr., Vice Chairman, gave the report of the Program Committee. Mr. Burnham related that the Program Committee is responsible for three functions a year; the Clambake, the November Members' Dinner and the Annual Business Meeting and Dinner being held tonight. Comments indicated the Clambake held on August 10, 1965 had been a very successful affair, fun being had by all 1050 members and guests who attended. The attendance at the November Dinner which had been held on November 3, 1965 totaled 228 of which 13 were faculty members from the colleges affiliated with The Moles' Education Committee. Indications are that tonight's dinner will be successful by the obvious good fellowship displayed by the 230 members in attendance. Mr. Burnham concluded with a message from Jack LeTourneau, since it would have been his last night to serve as Chairman that it had been a great deal of pleasure serving The Moles and to thank the members of his committee for their invaluable assistance.



Retiring President Richard E. Mynatt is presented with Presidents' Certificate by President Henry C. Boschen.

Arnold Thurber, Chairman of the Finance Committee, reported on the condition of the Association's Permanent Fund which totaled \$42,895.00 as of April 30, 1966.

Philip F. Brueck, Chairman of the Publicity Committee, called to the attention of the members that the July and November issues of *Holing Through* had been eight page issues and the April issue was ten pages and requested the members' comments or criticisms to guide the Committee in preparing future issues. Mr. Brueck reported that all the functions of the Committee had been carried out successfully during this past year and thanked his Committee for their assistance.

Henry M. Wasung, Chairman of the Education Committee, submitted the report of the Education Committee and recalled that the Committee had arranged for several "on campus" speakers for the various colleges; several individual field trips for colleges requesting them; and the Annual Students' Day field trip held on April 15th. He specifically thanked those members whose firms had donated "Hard Hats" for the occasion and Joe Green who had given such invaluable assistance from start to finish of the preparations for the day.

Robert Crimmins, Chairman of the Special Committee on Summer Employment for engineering students, gave a brief report and asked that any members present who might have an opportunity for a student available now to let Mrs. Gallagher know at the end of the

meeting so that she could take the proper steps to arrange for interviews. (For a full report of this program's progress to date see page 6.)

Following the report of Edward G. Armitage, Chairman of the Committee on Elections, President Mynatt introduced the officers and trustees elected: Trustees, each to serve for three years, A. K. Burnham, Jr., Stanley M. Dore, Robert B. Jarvis, and Donald McKinley — the Officers are: Sergeant-at-Arms, Louis F. Booth; Secretary, Fred L. Doolittle; Treasurer, Arnold Thurber; 2nd Vice President, Howard Gould; 1st Vice President, Robert Crimmins; and President, Henry C. Boschen.

At this point, President Henry C. Boschen accepted the gavel from retiring President Mynatt and in turn presented Mr. Mynatt with the traditional President's Pin and hand engrossed and illuminated President's certificate.

After Mr. Mynatt's acceptance remarks, President Boschen resumed by announcing the Chairmen and Vice Chairmen for the committees for the current year (listed in detail on page 10).

The meeting was adjourned at 8:40 p.m. Following the meeting President Boschen spoke to the members for about 15 minutes concerning observations he made on his recent visit to South Vietnam. The talk was most interesting and instructive and held the attention of all the members until he had concluded. It was obvious this was one of the highlights of the evening.

1966/67 OFFICERS



OFFICERS OF THE MOLES FOR 1966/67: seated (l to r) Fred L. Doolittle, Secretary; Howard Gould, Second Vice President; Henry C. Boschen, President; Robert Crimmins, First Vice President; standing (l to r) Louis F. Booth, Sergeant-at-Arms and Arnold Thurber, Treasurer.

HENRY C. BOSCHEN — President

Born on Independence Day in 1906 he is a Mechanical Engineering graduate of Cornell University and joined the Raymond Concrete Pile Company in 1928. Since that time, he has been directly engaged in every phase of the company's development of foreign and domestic construction operations. In forty years, the Raymond Concrete Pile Company has grown from a small struggling pile driving company to a worldwide construction and foundation organization numbering over 8000 employees and known as Raymond International, Inc.

He was elected President of Raymond in 1960 after having been a Vice President and Director since 1946. During the past four years, and until the Fall of 1965, Raymond was one of two joint venture partners engaged in building military and civilian facilities in South Vietnam. Due to the accelerated pace of our defense effort ordered by President Lyndon B. Johnson, two other major U.S. construction companies were added to the joint venture group in September 1965. Hank, as management representative of Raymond International, Inc., has become increasingly occupied with the advancement of that construction effort by the joint venture companies known as RMK-BRJ. Among his other activities are: Director of the Colombian-American Chamber of Commerce in the United States; Trustee of Robert College in Istanbul, Turkey; Member of American Society of Civil

Engineers, The Presidents, Cornell Club of N.Y., Lawyers Club, Larchmont Yacht Club, New York Yacht Club, Cruising Club of America, Storm Trysail Club, Camp Fire Club, Cornell Engineers and Downtown Athletic Club. He loves sailing and spends a great deal of his spare time on his sloop "Sirius."

ROBERT CRIMMINS — 1st Vice President

Bob comes from a family of construction men who have been in the business since 1848. From the day he was born on December 16, 1915, his life was influenced accordingly. Today he is President of Thomas Crimmins Contracting Co. He was graduated from Harvard in 1938 and in 1942 he graduated from the Columbia University School of Engineering. During World War II Bob served with the Combat Engineers, U.S. Army in the Pacific Area.

His 28 years of experience has covered all phases from engineer in the field, superintendent and project manager as well as responsibility for estimating; engineering and negotiations for contracts for many of the large building foundations in and around New York. A resident of Darien, Connecticut, he is a registered Professional Engineer in New York and Connecticut. Other activities include being an Arbitrator of the American Arbitration Association; Past President of the Harvard Engineering Society; a Past Chairman of the Metropolitan Section of the

Foundation and Soil Mechanics Group, American Society of Civil Engineers; a member of Columbia Engineering Council, and an ardent sailing enthusiast on Long Island Sound.

HOWARD GOULD — 2nd Vice President

Howard was born in Brooklyn, N.Y. in 1911 and attended New York University, the College of William and Mary in Williamsburg, Va., and Pratt Institute of Technology in Brooklyn, N.Y. He joined Spencer, White & Prentis in 1940 and represented them on the construction of docks at Philadelphia, Pa., and at Fort Mifflin, Pa. During World War II he was an Officer in the 28th Construction Battalion both in the European and Pacific Theatres, participating in the invasion of Utah Beach, Normandy and at Okinawa. Following the war he returned to Spencer, White & Prentis and in 1948 opened branch offices for them in Detroit and Chicago. While in the midwest, Howard was made a Vice President and upon the death of the late Charles B. Spencer he returned to New York and was elected a Director of the company. He is a licensed Professional Engineer in the states of New York, New Jersey, Michigan and Illinois.

FRED L. DOOLITTLE — Secretary

Serving his second year as Secretary for The Moles is Fred L. Doolittle, President and Chief Executive Officer of Penn-Dixie Cement Corporation since 1961. He was first employed by Penn-Dixie in 1929 and rose through the ranks to Assistant Sales Manager in 1941 and a Director in 1956. Fred is a Director and Member of the Executive Committee of the Portland Cement Association; Vice President and Member of Board of Directors of the New York Building Congress; Member of the Board of Governors Winged Foot Golf Club; Trustee of the Society of American Military Engineers, New York City Chapter; and a Member of the Grand Central Advisory Board, Chemical Bank, N. Y. Trust Co.

ARNOLD THURBER — Treasurer

Arnold is Vice President & Chief Engineer for J. Rich Steers, Inc. a New York heavy construction concern where he has been employed since 1937. Before joining Steers he was a partner in a small contracting firm which specialized in building bridges in New York State. Arnold was born on Washington's birthday in 1909 in Boston, New York. He attended Ohio Northern University and earned his BSCE in 1929 after which he was an Instructor

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New Officers

(Continued from Page 3)

of civil engineering at the University. He resides in Staten Island, New York.

LOUIS F. BOOTH — Sergeant-at-Arms

Engineer of Construction in charge of construction, bridges, tunnels, terminals, etc., for The Port of New York Authority since 1956. Prior to this Louis was one of the principals in the firm of Ayers-Hagan-Booth, Inc. of Providence, R.I., and before this was with the George A. Fuller Company as Field Engineer, Superintendent and Project Manager on construction largely in the New York City area. While with Fuller (1927-1948) he had "leaves" for work with Thomas Crimmins Contracting Co., H. J. Deutschbein in Cincinnati and the Fuller-Merritt joint venture as Chief Engineer on the construction of the U.S. Navy Base at Argentia, Newfoundland. During World War II Louis was Operations Officer, 1141st Engr. Combat Group with the Army Engineers. He also served as U.S. Town Major of Brussels. He was born on January 23, 1903 in Indianapolis. Graduated 1923 with BSCE Degree from Purdue University. In 1937 he earned a CE Degree. Active in sports while attending Purdue specializing in Football and Wrestling. He is a Registered Engineer in the states of New York, New Jersey, Rhode Island, Tennessee and Ohio, a Fellow in the American Society of Civil Engineers; a member of the National Society of Professional Engineers; Society of Military Engineers; Engineers' Club of New York.

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Birthday Greetings...

JIM FARLEY, Honorary Member, who made the principal address at the 1951 Award Dinner and who has graced the dais at innumerable Award Dinners, celebrated his 78th birthday on May 30th; ARTHUR J. SACKETT, Charter Member, formerly affiliated with Mason & Hangar-Silas Mason Company, Inc., celebrated his 82nd birthday on May 25th; Founder Member, ALEX M. STAGG, was 79 on June 18th; The Moles' Honorary Life President and Founder Member, RALPH W. ATWATER, was 75 on June 12th; and youngster, DAVID S. FINE, Sgt.-at-Arms in 1965 formerly with American Bridge Division of U.S. Steel Corp., had his 71st birthday on May 23rd. Congratulations, we hope your birthdays were happy and our best wishes for the years ahead.



When RADM. PAUL J. HALLORAN, (U.S.N. Ret.) retired from the U.S. Navy after 27 years of service during which time he averaged 100,000 miles a year in travel, he moved his family into a 100 year old house in Yorktown, N.Y. in 1948. He joined Foley Brothers as Vice President and Project Executive, a position he held until his second retirement in 1958.

Admiral Halloran's first project when he moved into his house at Yorktown was to draw up plans for improving the house. This has involved closing in a porch, adding a picture window, building a back staircase, changing the location of the front door and a good deal of landscaping. Part of the overall improvement of the eight-acre property was the construction of the swimming pool which he did without help. He scooped out a free-form sixty foot long area and lined it with concrete blocks. The pool gets its water from springs and an artesian well. He has a special set-up for a television near the pool and can take his daily swim in the summertime without missing a baseball game.

Any enterprise he undertakes has the trademark of the perfectionist. His sound system, which he designed and installed, uses 23 speakers, including one in the barbecue pit, a revolving door antenna plus a second antenna on the barn for use under special conditions. A dozen or more switches, reached without moving from his chair, provide various combinations of AM and FM music, television and tape recording.

His house is equipped with its own electric generator. A 450 gallon water tank is stored in the basement, ready for use during water shortages. The heat in the house is controlled by elaborate timing instruments which provide the amount of heat where he wants it,

(Continued Next Column)

Moles and the World Trade Center

The Moles, as well as the construction fraternity in general, are awaiting with keen interest the definite start of the downtown WORLD TRADE CENTER project, the largest single foundation in New York's history. Though site acquisition has been accomplished, planning by The Port of New York Authority and its Architects and Engineers is well advanced, and some twenty-two buildings are in process of demolition, actual start of the foundation construction is being delayed by the City pending revision of the understandings which had been reached between the Port and the previous administration.

Four MOLES members are actively engaged on the work. JACK KYLE, Chief Engineer of the Port Authority, is in general charge of both Design and Construction. LOUIE BOOTH, Engineer of Construction, will be handling the foundation construction with HARRY DRUDING as Senior Resident Engineer. RAY MONTI will represent the Port Authority World Trade Department on both the foundation and superstructure.

HALLORAN (Continued)

when he wants it and at great fuel cost savings. "Pete," as he is affectionately known, doesn't know what it is to have a house repair bill. The reason is he's a master carpenter, a machinist, an electrician, a plumber, an oil burner expert, a mason, a landscape gardener and an electronics buff. His toolroom is undoubtedly one of the best equipped home toolrooms in existence. His industrial jeep has attachments which plow, rake, cut grass, grade driveways, dig holes and move buildings.

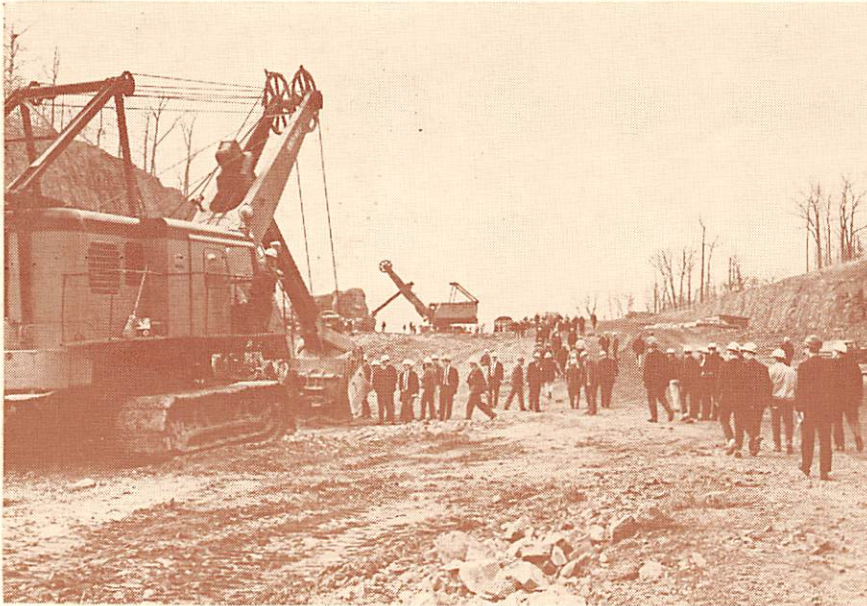
Recently he became interested in painting and the art of cartooning, and has received diplomas for courses he took in both subjects.

The next item on his list of inventions is a contrivance he plans to rig up which will let him know when mail is placed in his mailbox at the end of his 500 foot driveway.

Admiral Halloran is the author of many technical articles and author of "Fale Tusi O Samoa," the history of the construction of the Samoan cultural center. He has designed underwater survey devices, and musical systems for which he has obtained half a dozen copyrights.

Some of his most recent interests have been preparing artifacts for the Sea Bee Museum at Fort Hueneme, California, also material preparation on the Samoan Library for exhibit in the Polynesian Section of the New York World's Fair.

EDUCATION ACTIVITIES



STUDENTS AT DEEP ROCK CUT, WEST ORANGE, NEW JERSEY

Students' Day

The 1966 Annual Students' Day sponsored by The Moles' Education Committee exceeded all previous efforts for preparation, elaborateness and achievement in showing the students the practical side of heavy construction.

Organized by Chairman Henry Wausung and the Education Committee and under the personal co-direction of William T. Kirschner, District Bridge Engineer, New Jersey State Highway Dept., and Mole Member, W. J. "Joe" Green, the entire tour proceeded without a hitch.

Newark News covers The Moles' Students' Day — Quoting from the full page story of the tour which appeared in the April 17th Newark Sunday News, "For William Kirschner, it was like an open air walking classroom. He gave running commentaries on the intricacies of construction, staging, how water and sewer lines are moved, and on drilling and blasting rock to form a sheer slope through pre-splitting, a method few of the students had heard of before."

Students and Faculty Members in Force — About 250 Students and Faculty Members from eighteen engineering colleges were transported by six busses. The tour started at the point where the drainage tunnel is to discharge into the Passaic River in Newark, proceeded along Interstate High-

way 280 through East Orange, paused at the Mayfair Farms Restaurant in West Orange for lunch and concluded by inspecting the deep rock cut for route 280 through Orange Mountain in West Orange. Students from four colleges were on spring vacation at the time of the tour, but despite this they attended. Students came from distant locations such as the University of Connecticut at Storrs, Conn.; Rennselaer and Union Colleges in the vicinity of Albany, N.Y.; Cornell University at Ithaca, N.Y.; N.Y. State University at Delhi, N.Y.; Lehigh and Lafayette in Pennsylvania as well as from the nearby colleges in New Jersey and New York. Many of the students drove hundreds of miles through the night in order to attend which is an indication of their sincere desire to learn and of their high regard for these annual Mole tours.

Preparations Took Unselfish Cooperation Between N. J. State Highway Dept., and Moles — Preparations for the tour took place over the period of two months. It was an example of total, unselfish cooperation between the officials and facilities of the N.J. State Highway Dept., and The Moles. Messrs. Kirschner and Green met with Highway Department officials in Trenton and after receiving full authorization, proceeded to survey the route of the tour and to work out itineraries and schedules to the most minute detail.

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Governor Richard J. Hughes Commends The Moles!

W. J. (Joe) Green who had very much of a hand in making the 1966 Students' Day the success it was, received a personal letter from the Hon. Richard J. Hughes, Governor of the State of New Jersey, which reads as follows: Dear Mr. Green:

It is a pleasure to make contact with you again, although by the less desirable medium of our letters rather than a personal meeting.

I want first to commend the Moles for transforming to action their desire to acquaint engineering students with the reality of construction and engineering work as it is being done in the field, and compliment you and your associates for approaching this project in a manner that measures the stature of your organization.

I find far too few examples of such sincere action undertaken for the benefit of a specific group with no thought of reward or return, and I certainly hope that your program is infectious.

Your report of our Highway Department's cooperation and the part its staff contributed to your project is most gratifying to me. I think the spirit with which they approached and accomplished this project is a sign of how important they consider your effort. I am proud of them.

My congratulations on the success of your venture and best wishes for its future.

Sincerely,

(signed) RICHARD J. HUGHES
Governor

• On Tuesday, May 24, 1966 the College of Engineering at Cornell University held a conference to discuss and define the needs of the construction industry in the area of continuing education for its executives and to explore ways in which Cornell can best meet these needs of the industry. About 40 top names in the construction industry, including at least a dozen Moles, were the guests of Cornell at an all-day session. Participating for Cornell were: Dean Andrew Schultz, Professors, J. C. Smith, H. P. Goode, and George Blessis. It would seem that Cornell's plans may be something for the future, perhaps ten years hence, the supply of civil engineers will tend to meet the demand of the industry (in which there is definitely a lag at present).

Summer Employment Program

The Moles' program to assist undergraduate student engineers who are interested in heavy construction to obtain employment with contractors during summer vacation periods is off to a successful start.

From the 75 members of The Moles whose affiliation gives them the opportunity to assist in this worthwhile program the following results have been obtained:

Seventeen student engineers were hired out of twenty-one opportunities offered by various contractors. There are still a few students we have not heard from so that the figure of seventeen may actually be revised upward. Certain contractors and consultant firms were so pleased with the student applicants sent to them that they hired two or in some cases all three students. The program is developing excellent cooperation between the College Placement Executives and The Moles' contractors.

In the fall of the year contractors will be contacted to determine if, in their opinion, the student should pursue this field and the students will be contacted to see if they wish to pursue it.

The following companies have hired one or more students: Cayuga Construction Corp., Thomas Crimmins Contracting Company, Frederic R. Harris, Inc., Howard, Needles, Tammen & Bergendoff, The Arthur A. Johnson Corp., New York Central Railway System, Parsons, Brinckerhoff, Quade & Douglas, Raymond International Inc., Slattery Contracting Company, Inc., Turner Construction Company and Underpinning & Foundation Company, Inc. Mr. DiStasio, Vice President of the Freyssinet Co., Inc., heard of The Moles' program and advised they would like to participate. Pleased with this outside support the Education Committee offered the opportunity with the results that two applicants were hired. This is evidence that the program is as worthwhile to the industry as to student engineers.

Field Trip

• The Education Committee with the aid of one of The Moles' new members, Herbert Wasserman, Vice President of the Slattery Contracting Co., Inc., arranged for a field trip on June 6, 1966, which included a group of engineering students from State University, Farmingdale, New York.

Professor Howard Crandell, a regular at the November Dinners, representing State U., was in charge of his group.

Students' Day (Cont. from Page 5)

Thanks from The Moles to executives of the Highway Department which included: J. R. Schulyer, J. R. Cunningham, I. O. Doll, J. T. Andrews, E. Y. Corson, Sven Hedin, and E. F. Mullenney, for their contributions toward the success of the day. Other N.J. State Highway Dept., personnel who actively participated were Eugene Bechner, M. Carolan, M. Cifella, Floyd Dumphey, H. Esperson, J. T. Friedenrich, F. Gradon, R. Imhoffer, R. Kulvicki, L. Mangano, L. Papp, W. Parelli, W. Pfister, G. Salvia, Austin Schenck, W. Shader, Peter Stam and A. Zampella, Robert B. Dasch and his assistant Lawrence T. McLaughlin of the N.J. State Highway Dept., Bureau of Public Information were particularly helpful in coordinating the material for the Students' Kits, arranging for publicity and in general assisting The Moles' office.

Mole members serving as guides and advisors were: Education Committee Chairman, Henry M. Wasung, Ralph W. Atwater, Gardner M. Bishop, Howard G. Dixon, Sr., Jim Kerr, Rube Samuels and Charles Stillman. Prominent Mole Member, Past President and 1966 Mole Member Award Recipient, A. Holmes Crimmins, took time out to attend; riding in one of the busses from stop to stop; hard-hatted, talking with the students; and generally supporting the Committee in their efforts to not only give the students an idea of the construction industry in all its technical aspects but to show them the caliber of men they would be associating with in the future should they choose to be construction men.

FIELD TRIP (Continued)

The site of the field trip was Slattery's 23½ million dollar road project in Westchester County (largest single contract ever let in N. Y. State) involving access roads and state highway relocations; 3 million cubic yards of unclassified excavation of which 1/3 is rock, the balance earth and boulders. A major phase of the project includes the erection of 13 bridges and 6 box culverts. Also included are 10 major cuts and fills, the deepest being about 60 feet deep and 1300 feet in length with fill requiring more than ½ million yards of material.

Jim Bruschi, another Mole, is resident engineer for Madigan-Hyland, Inc., consulting engineers for the project.

The committee's thanks go to Slattery, New York State Dept. of Public Works, Madigan-Hyland and others involved in this project for helping to show young student engineers "what Heavy Construction is all about."

STUDENTS' DAY (Continued)

Everyone Pitched In — Representatives from various contractors on the jobs who assisted in explaining the work were: Paul Sullivan, Superintendent, Mohawk Constructors, Morris J. Levin, Engineer, Peter W. Kero, Inc., Ronald Spevak, Project Engineer for L. Zimmerman & Sons, Inc., Michael Colavita of the P. T. & L. Construction Company, Bud Gray, Area Project Mgr., E. Miller Smith and William Hart of S. J. Groves & Sons Co., J. J. Maloney, E. I. duPont de Nemours Co., Philip R. Berger, Vice President and Manager of a branch of Vibratex Engineering Co., Inc., located at Bradfordwoods, Pa. Mr. Berger who was present, sent literature on their facilities for the measurement and analysis of earth movement and air concussion from blasting, pile driving, heavy machinery and other sources, and displayed an instrument which is used for recording the measurement of ground vibrations.

Cooperation between the N. J. State Highway Department and The Moles' office staff resulted in a Students' Kit, including among other things, a chronology of Interstate Route 280; a strip map of the route with stops noted on the map; construction statistics and sequence of contracts; a tour guide; and photos of important phases of the construction. Also included in the kits were reprints of articles (Engineering News-Record, April 15, 1965 entitled "New Jersey Highway Dept., Builds a Tunnel — For Water" constructed by James McHugh Construction Co., Chicago, Ill., and Constructioneer, March 7, 1966, entitled "Mammoth Rock Cut for N. J. Interstate Job" S. J. Groves & Sons Co., makes 130 ft. deep cut through First Mountain in West Orange, N. J.)

Luncheon and Briefing at Mayfair Farms — A highlight of the day was a luncheon and meeting held at the Mayfair Farms Restaurant. Following an excellent luncheon the students received words of greeting from Henry M. Wasung and from Joseph L. Cunningham, Assistant Highway Engineer in charge of Design. Questions concerning the projects visited were solicited and an hour long question and answer period ensued which demonstrated mature understanding on the part of the students and afforded Mr. Kirschner and his colleagues the opportunity to clear up many points.

Hard Hats — Construction men's hard hats are still one of the necessities and delights of the day and the young men do enjoy getting this souvenir. So once again, and it cannot be said too often, thanks to the many

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NEW MEMBERS



19 of the 24 Members elected to The Moles as of May 1, 1966: standing (l to r) James Glasgow; Herbert Wasserman; Leo W. Geismar; Edwin T. Morris; John T. O'Neill; Andrew C. Paton; Robert Goodman; Allen C. Cullion; Joseph Peraino; Melvin E. Lemmerhirt; Gerald D. Sarno; seated (l to r) Winston E. Hickey;

Stanley M. Aronin; Robert W. Cleveland; M. David Giardino; John F. Johnston; Arthur H. Sibley; James H. Gilbert; Robert C. McDowell. The 5 newly elected members, not present for the picture were: Edwin C. Cubler; Vernon N. Holderman; Richard Q. Praeger; Walter Scott, Jr.; Carlin H. Whitsell.

STANLEY M. ARONIN is engaged as Project Manager for Poirier & McLane Corporation. His duties are estimating, bidding and managing heavy construction projects. Prior to his affiliation with Poirier & McLane in October 1963, he was Superintendent for Johnson, Drake & Piper, Inc., and completed many major heavy construction projects for them in the Metropolitan and Westchester area; Canada and Cuba. Before joining Johnson, Drake & Piper, Stan was an engineer for the Gull Contracting Corporation on the construction of Idlewild Airport. He holds a BCE Degree from New York University; is a member of the Society of American Military Engineers and resides at the present time in Pelham, New York.

ROBERT W. CLEVELAND, President of the H. O. Penn Machinery Company—exclusive dealers for Caterpillar Tractor Company in the Metropolitan New York area and State of Connecticut. Mr. Cleveland was formerly president of Cleveland Brothers Equipment Co., in Harrisburg, Pennsylvania, and before this a successful excavating and paving contractor operating in New York City and New Jersey, with headquarters in East Orange, New Jersey. His background and experience in construction work has proven to be of considerable value to many in the construction business, and he is held in high regard in the industry. Mr. Cleveland was born in New York City on August 9, 1910, attended elementary and high schools in East Orange, N. J.; he attended Colgate University and graduated from Rutgers University in 1933 with a B.S. Degree. **EDWIN C. CUBLER**—passed away on May 14, 1966 at Bethesda, Maryland. (See page 11).

ALLEN C. CULLION is with the Great Lakes Dredge & Dock Company as Division Engineer of the Atlantic Division. He was born September 21, 1926. He received a BSCE at the University of Rhode Island. His duties consist of estimating and supervising engineering on river and harbor improvements. He resides in Millington, N. J.

LEO W. GEISMAR, JR., is Vice President and Chief Engineer of the Geo. W. Rogers Construction Corp., and his duties include the designing and supervising of construction of piers, pier-sheds, bulkheads, and foundations. Mr. Geismar has a BCE from Manhattan College. He is a member of the American Society of Military Engineers. Before joining the Rogers company he was employed by Atlas Carlin Corporation as Project Engineer on the 74th Street Power House; Gibbs & Hill, Inc., as an engineer; and Knappen Engineering Company (TAMS). Mr. Geismar resides in Demarest, New Jersey.

M. DAVID GIARDINO was born December 3, 1931. He graduated from Princeton University with a BSE in Civil Engineering in 1953 and served for three years as an Officer in the Civil Engineer Corps of the United States Navy. Since that time he has been active in the heavy construction industry and has designed and furnished concrete placing equipment for the Sixth Avenue Subway construction, the George Washington Bridge reconstruction and many other notable projects. Dave is President of Equipco Inc., Concrete Placement Systems, Inc., and Giardino Enterprises, Inc., a related group of concerns which specialize in the rental, sale, design, construction and

manufacture of equipment for the heavy construction industry. Also involved is the pumping of concrete, aggregates and grouts by use of specialized equipment. He is a qualified engineer, devoted especially to the heavy construction industry. Dave is the son of Mario D. Giardino who joined The Moles 21 years ago.

JAMES H. GILBERT is President of C. W. Blakeslee & Sons, Inc., 120 year old construction organization located in New Haven, Connecticut, specializing in heavy construction. Mr. Gilbert earned a BA in 1943 from Dartmouth College. He is a Past Director of Connecticut Road Builders Association; Past President of Connecticut Society of Civil Engineers; a Director of the Connecticut Division of New England Road Builders Association; a member of the American Concrete Institute; Director of the National Ready Mix Concrete Association and President of the Prestressed Concrete Institute.

JAMES GLASGOW is President and General Manager of Glasgow, Inc., of Glenside, Pennsylvania, specializing in heavy and highway construction, dams, tunnels, foundations, and buried cable installation. Mr. Glasgow assumed the responsibility of handling the affairs of Glasgow, Inc., about 15 years ago upon the death of his father and since that time has developed this company so that it is recognized as being one of the most active and enterprising companies of its kind in the Pennsylvania, New York, New Jersey, and Delaware area. Under his direction the company has performed work on the approaches to the Lehigh Tunnel on the Northeast Extension of the Pennsylvania Turn-

(Continued on Page 8)

New Members

(Continued from Page 7)

pike; the Vine Street Viaduct which carries a branch of the Schuylkill Expressway through midtown Philadelphia; the Crystal Lake Dam near Wilkes-Barre, Pennsylvania; several Atomic Power Plant site preparation and foundation installations; and a number of sections of the Pennsylvania Turnpike, the Schuylkill Expressway, the Anthracite Expressway, the Delaware Expressway, and the Keystone Shortway in Pennsylvania. Jim is a Past President of The Contractors Association of Eastern Pennsylvania, a Director of The Associated Pennsylvania Constructors, and a member of LuLu Temple Shrine.

ROBERT GOODMAN earned a B.A. in 1935 and a C.E. in 1939 from Cornell University. As President of Grow Construction Co., Inc., he has directed the work his company performed on the Brooklyn Battery Tunnel Governors Island ventilating shaft and in the last few years most of the compressed air sewer tunnels constructed in New York City. Among other projects constructed under his direction are: the land approach sections of the Third Tube of the Lincoln Tunnel and numerous compressed air soft ground tunnels. In addition his company has had major contracts for the construction of highway bridges, river crossings and viaducts, having most recently completed the four level Interchange between the Clearview Expressway and Grand Central Parkway and the Kew Gardens Interchange between the Van Wyck Expressway and Grand Central Parkway. At present they are actively engaged in executing a large contract for an interceptor sewer in lower Manhattan. Bob is also a member of the New York State Society of Professional Engineers, Inc.

WINSTON E. HICKEY is Board Chairman of The Foundation Co., of Canada, Ltd., which he has been associated with for the past 20 years. During this period he has been directly responsible for the construction of the Humber Tunnel at Toronto, Beechwood Dam, Hart Jaune Project and the Fanshawe Dam as well as a number of projects on both the Montreal and Toronto subways. In marine and subaqueous construction, his responsibilities have included various harbour installations in Toronto; Halifax, Nova Scotia; Montreal; Lower St. Lawrence River; Saint John, New Brunswick. Mr. Hickey attended Mount Allison University and earned a B.S. in 1933 and has a B.E. from Nova Scotia Technical College. He is a member of the Association of Professional Engi-

neers of Ontario; Engineering Institute of Canada; Canadian Institute of Mining & Metallurgy; American Concrete Institute; and the Prospectors & Developers Association.

VERNON N. HOLDERMAN is President and General Manager of V. N. Holderman & Sons, Inc., and V. N. Holderman Paving, Inc., engaged in heavy highway construction, airports, tunnels and dams. Volumewise the companies are rated as Ohio's largest contracting firms specializing in these fields. Mr. Holderman has been the mastermind behind construction of highways and freeways throughout Ohio. In a 47-year career he has risen to top rank among Buckeye construction industry leaders. He has in the last 27 years developed an originally two-machine firm into a vast enterprise requiring almost innumerable pieces of modern, efficient construction equipment. While the companies were growing, Mr. Holderman pursued a hunting and fishing hobby that has created one of the countries largest and most unusual private collections of big game trophies from North America, Africa and India. His two sons, Gail W. Holderman and Robert E. Holderman, have in recent years served aggressively in the development of the companies. Gail is Vice President in charge of all field operations and Bob is Secretary and Treasurer.

JOHN F. JOHNSTON — presently engaged as Director of Operations MacLean-Grove & Co., Inc., was resident engineer on construction of the deep tunnel under the Sixth Avenue Subway; Assistant Project Engineer on the 3rd tube of the Lincoln Tunnel; Project Manager on the South Charles Compressed Air Tunnel in Boston and others. Mr. Johnston is a graduate of the University of Kentucky and earned a BSCE in 1941.

MELVIN E. LEMMERHIRT is with the Great Lakes Dredge & Dock Co., as Assistant Manager-Atlantic Division — managing dredging projects along the Atlantic Coast and the Caribbean area. For the past 28 years, Mr. Lemmerhirt has served in these various capacities: Field Engineer, Assistant Superintendent, Superintendent and Project Manager for marine construction and dredging projects on the Great Lakes, Gulf Coast and the West Indies. He attended Northwestern University and Armour Tech., and has a BSCE degree. He is also a member of the Society of American Military Engineers.

ROBERT C. McDOWELL is President and Chairman of the Board for McDowell-Wellman Engineering Company.

He was born in Kentucky in 1912 and is presently a resident of Akron, Ohio. His company provides complete engineered construction for basic industry of all mechanical plants from mining through finished manufacturing products including layout, location, docks and shipping facilities. They engineer and build all types of heavy hoisting equipment, bulk material handling systems, construction plants, open hearth charging machines, and coke plant equipment. Mr. McDowell has a BS from the University of Kentucky; C.E., *ibid*; Dr. of Science, *ibid*, and is a member of Tau Beta Pi; American Society of Civil Engineers; National Society of Professional Engineers; Association of Iron and Steel Engineers; American Welding Society; AIME; Cleveland Engineering Society; Newcomen and the Beavers.

EDWIN T. MORRIS — prior to assuming the Presidency of Baltimore Contractors, Inc., he was a Vice President and Director of Raymond International, Inc., and handled many large heavy construction projects among the most recent being the Lamco Project in Liberia. Mr. Morris attended Manhattan College and in 1933 started with Raymond International and rose from the ranks to become one of their top executives. He is a member of the American Society of Civil Engineers; The Explorers Club and the Newcomen Society.

JOHN T. O'NEILL, Col., U.S.A. (Ret.) — Retired from the Army Corps of Engineers in 1961 after 30 years of military service. During his service, he was awarded the Distinguished Service Cross for extraordinary heroism while in command of the Army-Navy Demolition Units on Omaha Beach on D-Day. He also served as District Engineer N.Y., and Supervisor of N.Y. Harbor. Following retirement, he was Consulting Engineer to the Triborough Bridge and Tunnel Authority and responsible for the coordination of the construction of the Verrazano-Narrows Bridge and the arterial highways in the vicinity of the World's Fair. At present he is Director of Engineering, New York World's Fair Corporation and responsible for the demolition of the Fair and the restoration of Flushing Meadow Park. Col. O'Neill attended the University of Maryland, where he received the degrees B.S. in C.E. and Civil Engineer. He is a member of the Society of Professional Engineers and the Society of American Military Engineers; a Fellow in the American Society of Civil Engineers and a registered professional engineer in New York, District of Columbia and Maryland.

ANDREW C. PATON — Partner in the firm of Metcalf & Eddy, he is Director of Operations and his responsibilities include oversight of all construction engineered by that firm. Prior to this, one of his outstanding positions was as representative of the Architect Engineer for the construction of Thule Air Base in northern Greenland. Earlier he had been Chief Engineer for the Henley Lundgren Co. Mr. Paton attended Tufts College. In 1926 his alma mater conferred the Degree of BS "extra ordinem". Andy is a member of the American Society of Civil Engineers; American Institute of Consulting Engineers; National Society of Professional Engineers; American Public Works Association; American Water Works Association; and Boston Society of Civil Engineers.

JOSEPH PERAINO is Vice President and Chief Engineer of Merritt-Chapman & Scott Construction Services, Inc. Mr. Peraino has been with Merritt-Chapman & Scott for 27 years. His present activities include designing and estimating for proposed projects including dams, tunnels, piers, bridge caissons and cofferdams. Joe is a licensed Professional Engineer in the States of New York, New Jersey, Delaware, Florida and California. For Merritt, he has worked on such outstanding projects as Priest Rapids Hydro Dam, Glen Canyon Dam, Mackinac Bridge, Chesapeake Bay Tunnel and many other projects of this type. His reputation as a construction expert and his experience in the field of marine construction is recognized by Moles and others. Before becoming a Mole, he assisted the Education Committee in Students' Day programs. Joe is a member of the American Concrete Institute, and the American Military Engineers and a Fellow of the American Society of Civil Engineers.

RICHARD Q. PRAEGER — born May 9, 1924 exemplifies, as do so many of the new members this year, youth along with all the other qualities required of today's executives. Partner in the firm of Praeger-Kavanagh-Waterbury he served as partner-in-charge of the \$23 million Shea Municipal Stadium at Flushing Meadows, the Whitestone Bridge and Expressway and the \$8 million New York State Office Building and alternate Seat of Government in Albany. Rick has a BSCE from Princeton University and a MCE from New York University. He is a member of the American Society of Civil Engineers, Society of Military Engineers; and a member of the Board of Governors of the New York Building Congress. He is a Director and Past President of the

New York Association of Consulting Engineers and a Vice President of Consulting Engineers Council of the U.S. Rick is the son of Mole member, Emil Praeger, one of New York's most eminent and distinguished consulting engineers.

GERALD D. SARNO — Contracting Manager New York District of the Bethlehem Steel Corporation. Gerry was graduated from Dartmouth College where he received a B.A. in Engineering Science and a Master of Science-Civil Engineering at the Thayer School of Engineering. He served in the Civil Engineering Corps, United States Navy, as Resident Officer in charge of construction in San Juan, Puerto Rico, and in several locations in the United States. He resides in Greenwich, Connecticut, and is a member of the Dartmouth Society of Engineers, The University Club of New York, and the Winged Foot Golf Club.

WALTER SCOTT, JR. — comes from a family of heavy construction people. His father Walter Scott, a Mole member, is well known in heavy construction. Walter has been employed by Peter Kiewit Sons' Company since completing his military assignment following graduation from Colorado A & M College where he achieved a B.S. in Civil Engineering. At present he is an Executive Vice President in charge of Administration and Finance for Peter Kiewit.

ARTHUR H. SIBLEY — resides in Wilmington, Delaware. He is Manager, Construction & Quarry Sales for explosives and blasting supplies for Hercules Powder Company. Graduated in 1925 from the Norfolk County Agricultural School at Walpole, Massachusetts and has been associated with the construction end of the explosives business for over thirty years. He is conversant with its many problems and his judgement is respected by all he comes in contact with. Art is a member of the Associated General Contractors, the Beavers and the National Crushed Stone Association.

HERBERT WASSERMAN — is a Vice President of the Slattery Contracting Co., and is Project Manager on various road, foundation, subway and utility construction projects. He attended the University of Pennsylvania and completed his college work at C.C.N.Y. where he obtained a BCE in 1948. Herb is a member of the ASCE and Tau Beta Pi. His experience includes estimating, design and supervision of road and heavy construction foundation projects,

including power plant foundations, cofferdams and other subaqueous work. Prior to being with the Slattery Company he was with the U.S. Army in the Corps of Engineers.

CARLIN H. WHITESELL — Col., U.S. Army C.O.E. (Ret.). Prior to his employment with Peter Kiewit Sons' Co., Col. Whitesell was District Engineer, Eastern Ocean District, U.S. Army Corps of Engineers. Col. Whitesell is a Vice President of Peter Kiewit Sons' Co. He attended the U.S. Military Academy at West Point, New York where he earned a B.S. degree and Iowa State College where he achieved a M.S. in C.E. He is a Fellow of the American Society of Civil Engineers; a member of the Society of American Military Engineers, Permanent International Association of Navigational Congresses and a Registered Professional Engineer in the State of New York and the District of Columbia.

Students' Day

(Continued from Page 6)

companies having Mole members who so generously donate these hats.

Letters of Thanks Still Coming In — So that our members can see the effect The Moles' Students' Day program has on all concerned, we give you a few excerpts from letters received from faculty and students attending: Professor H. G. Harlow, Chairman of Civil Engineering Dept., Union College — "I want to express the appreciation of the Union College students who attended The Moles Field Day on April 15th. This was a thoroughly good experience for them and a tribute to The Moles and your committee. We appreciate the privilege of being included in the group." — Richard York, Sec. Treas. ASCE Student Chapter of Princeton University — "I would like to thank you for the outstanding tour you presented for us. The overall picture of the project that you presented was very valuable, as most of us have had no opportunity to observe an operation in toto. In addition, the attention to those unique details which are not considered in classroom design was made evident to us. Thank you for taking the time to make it such a complete and thorough experience." — Roger Gaugler, a student at Brooklyn Poly — "It is a tribute to your organization that you are interested in the student's view of the construction industry since it is not greatly emphasized in school. Most of the work being done on route 280 is truly gargantuan for a

(Continued on Page 10)

Committees 1966-67

• **Education** — Stanley M. Dore, New York City Board of Water Supply, is Chairman and Gardner M. Bishop, Slatery Contracting Company, Inc., is Vice Chairman. Others serving are: Seymour M. Berman of Underpinning & Foundation Company, Inc., Louis W. Hall of Turner Construction Company. Arthur J. Kenlan of Simpson, Brown & Kenlan, Reuben Samuels of Thomas Crimmins Contracting Company, and Charles Stillman of Linde-Griffith Construction Co.

• **Finance**—Robert B. Jarvis, partner in the law firm, Jarvis, Pilz & Norton is Chairman. Other members of the Committee are: William Denny, Raymond International, Inc., Charles W. Edgar, Morrison-Knudsen Company, Inc., Robert R. Ellis, Frederick Snare Corporation and David A. Werblin, Griffin Wellpoint Corporation.

• **Membership** — Alfred H. Korsen, Executive Vice President of Slatery Contracting Company, Inc., is Chairman assisted by Louis F. Booth, The Port of New York Authority as Vice Chairman. Other members of the Committee are: Robert W. Denny, The Arthur A. Johnson Corporation, George A. Fox, Grow Construction Company, Inc., Hal W. Hunt, Civil Engineering, Daniel M. Lazar, Cayuga Construction Corporation, Gerald A. O'Connor, Raymond International, Inc., Frank H. Peavey, Morrison-Knudsen Company, Inc., and Francis A. Vitolo, Corbetta Construction Company, Inc.

• **Program** — A. K. Burnham, Jr., The Arthur A. Johnson Corporation is Chairman and the Vice Chairman is Robert L. Jackson, The Arundel Corporation. Other members of the Committee are: John P. Barnes, Tartarus Construction Company, Inc., William A. Durkin, Walsh Construction Company, David H. Griffin, Griffin Wellpoint Corporation, Frank M. Raffo, E. I. du Pont de Nemours & Company, Carl L. Swenson, Jr., Foley Brothers, Inc., Thomas R. Trent, Boring, Inc., and Elwood P. Vroome, J. C. MacElroy Company, Inc.

• **Publicity** — Philip F. Brueck, General Manager of The General Contractors Association, serves another year as Chairman while Norman Nadel, MacLean Grove & Company, Inc., assists again as Vice Chairman. Other members are: Allen D. Fischbach, Fischbach & Moore, Inc., Victor B. Hertslet, The Arundel Corporation, Edward D. Sabin, Sabin Service and Research Corporation, and Edward A. Tully, Tully & DiNapoli, Inc.

Ferris Recuperating

George Ferris recently underwent a rather serious operation but like everything George does he came out of it nicely and is recuperating to the point that those who have spoken with him say "you wouldn't believe he'd been ill". At the first meeting of the Award Committee held on June 7th, George sent his regrets that he couldn't attend via President Boschen but also stated he was going to do his utmost to be at the next one.

The affection and esteem held for him in the Raymond organization is illustrated by the 8,200 employees sending their best wishes to him by way of a poem written by Jean Morrison from Raymond's bookkeeping department. We think it fitting to reproduce this poem here and in doing so, George, all The Moles send their affection and appreciation for your efforts in assisting to make The Moles a better organization since you became a Mole almost twenty years ago.

Dear George:

It is exactly twenty-two years ago

*Since the Raymond family you joined
"Turner's great loss was our fair gain"*

Is a phrase that's been well coined.

You've been vested in awards and honors

*But there are many more to be won
And not all of them require brain or brawn*

Some can be loads of real fun.

*For example there's a cup for the
salmon catch*

*A grand prize for the largest boar
You just name your favorite sports
And there are trophies by the score*

The Astoria steelheads are running now

*What a wonderful season it is
So why don't you pack up your tackle*

*Jet out there and give them the biz.
The wild boar have increased by the
hundreds*

*Since last you went hunting abroad
Now won't it be fun to go back o'er*

*The grounds you so often have trod.
In this era of advanced communication*

*The old grapevine is still much in use
Your cribbage skill doesn't exactly excel*

*At least that's what we're left to deduce
There's a guy whose pin money is reach-
ing low ebb*

*He declares you're not hard to beat
How he's itching to get you over that
barrel*

*And his gold piggy bank to replete.
We all miss the charm of your presence
here*

*In fact we are downright blue
But if get well wishes and prayers will
help*

Ours are all going out to you.

Students' Day (Cont. from Page 9)

highway project and I was duly impressed. Thank you once again for the tour and the construction helmet." — Excerpt from a letter received from Deputy Commissioner, State of New Jersey Highway Dept., Russell H. Mullen, — "May I take this opportunity to express the appreciation of the N.J. State Highway Dept., to The Moles for the opportunity of participating in their Annual Students' Day activities on April 15th. I have had excellent reports from our engineers who participated in the program concerning the manner in which The Moles organized the tour."

Students Left With Sharp Impressions

Quoting again from the Newark Sunday News — Richard Hellriegel of Newark College of Engineering, said that although he had passed through the East Orange construction area many times before, this was the first time he "really saw it, how traffic was kept moving on the parkway while digging went on underneath it, how traffic was rerouted and utilities kept in service without interruption." Charles Moseley of Princeton, was impressed with "the depth of the blasting and particularly with the enormous complexity of the work, the interrelationships of the various jobs." "I've driven by and heard the blasting," said Richard Wick of Newark College of Engineering, "but haven't seen the work first hand. Even with today's modern methods, I notice that in the soft earth tunnel work they still have to dig by hand." John Kunna of Newark College of Engineering, had been through the construction area previously on his own. He was "impressed most that someone has bothered to organize such a tour." For Donald Frederickson of Lafayette, the tour provided a feeling of accomplishment of seeing his own work carried further. Mr. Frederickson, who was most interested in the "entirely new" technique of pre-splitting rock, had been employed two years ago in surveying work along the freeway for Peter W. Kero, Inc., one of the contractors. "It was good to see the work as it is, to watch things get completed," he said. This was a sentiment echoed by The Moles, state officials and residents along the length of the highway.

FERRIS (Continued)

*Moles are chiefly known for their digging
And you've a talent for coming out
on top*

*It is urgent that you dig your way back
to the desk
'cause Raymond's swaying without her
main prop.*

. . . A Moment of Silence . . .



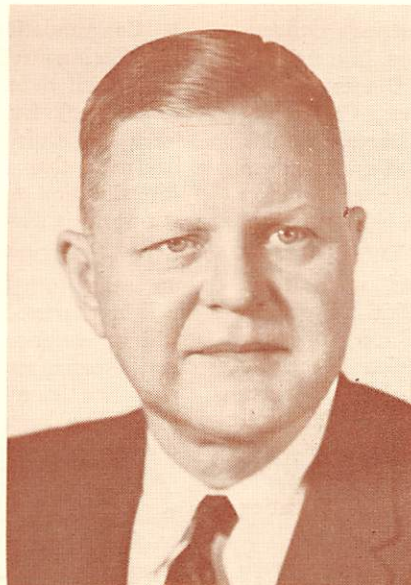
JOHN C. CURTIS died April 17, 1966 after a year of illness. Jack was born on October 1, 1899 in Grass Valley, California. He attended Lafayette College and moved to Claremont, New Hampshire in 1936.

As Manager of the Rock Drill Mining and Construction Division of the Joy Manufacturing Co., he advised general contractors on the selection and use of drilling equipment for various types of rock work in heavy construction and tunnel work. He was a mechanical engineer and one of America's foremost rock drill designers for which he held many patents in the industry.

He was a Member of the American Institute of Mining and Metallurgical Engineers; the Compressed Air and Gas Institute and Claremont Lodge 879 BPOE. He was also a U.S. delegate to the international organization for standardization of rock drilling equipment and a member of the Sullivan County Law Enforcement Association. He served for many years as a Director of the Claremont National Bank. Mr. Curtis is survived by his widow, Grace, a daughter, three brothers and three sisters.



• The Moles extend their deepest sympathy to John and Frank DiMenna on the passing of their father (May 8th) Nicholas DiMenna, President of the firm of Nicholas DiMenna & Sons, Inc.



MAURICE N. QUADE, senior partner of the firm of Parsons, Brinckerhoff, Quade & Douglas, died Sunday, June 12, 1966 of a heart attack suffered while on a business trip at Sea Island, Georgia. In anticipation of his retirement on July 1st, he had said, "I expect to become an associated consultant, and have a hand in some of the firm's work for a while. I want to grow older more gradually than appears to be possible under complete and sudden hibernation."

Born in Kewanee, Illinois, September 30, 1900 and graduated from the University of Illinois with a B.S. in Civil Engineering in 1925 where he received his Master's Degree the following year. He was licensed as a Professional Engineer in 17 states, the Panama Canal Zone and received a Certificate of Qualification from the National Bureau of Engineering Registration.

In his capacity as Senior Partner of the firm, Mr. Quade and his associates had a profound influence on the planning, design and the supervision of construction of major highway, river crossing, transportation and port improvement projects throughout the nation and abroad.

Mr. Quade received many honors and much recognition. Most recently, the publishers and editors of Engineering News-Record awarded him a plaque for "serving the best interests of the con-

(Continued Next Column)

EDWIN C. CUBLER died at Suburban Hospital, Bethesda, Maryland on May 14, 1966 after a short illness.

Ed was born on November 16, 1904 attended school in Philadelphia, Pa., and graduated from Cornell University with a degree in Civil Engineering. The past eight years he was employed as a Project Manager for Baltimore Contractors, Inc., where he managed the construction of POL facilities, The Apron Air Strip, schools, dormitories, offices and dining facilities at Lajes Air Force Base, Azores, the Houma Intracoastal Waterway Tunnel at Houma, La., and the Susquehanna Water Tunnel Project at Conowingo, Maryland. Prior to joining Baltimore Contractors, Inc., he had been with Raymond International, Inc., as Deputy Project Manager on overseas work in Liberia, Chili, Columbia, Venezuela, Dominican Republic, Peru, Belgian Congo, and South Africa Rhodesia.

He is survived by his widow, Helen, of Elkins Park, Pa.



GUY S. CONNORS

Word was received at press time that Guy S. Connors of Williams Bros. Co., Tulsa, Oklahoma, died on June 8, 1966 after a long illness. Mr. Connors became a member in 1958. The Moles extend their deepest sympathy to Mr. Connors' family, friends and associates. We hope to be able to print a more complete obituary in the next issue.

QUADE (Continued)

struction industry." The American Society of Civil Engineers awarded him the Thomas Fitch Rowland Prize in 1955 for his paper on "Special Design Features of the Yorktown Bridge." In 1965 he received one of the first alumni awards for distinguished service in engineering from his alma mater.

Mr. Quade was a Fellow in the American Society of Civil Engineers; a Member of the National Society of Professional Engineers, American Institute of Consulting Engineers, American Railway Engineering Association, American Concrete Institute, American Society of Testing Materials, Society of American Military Engineers, American Road Builders Association, Tau Beta Pi, Sigma Xi, and Chi Epsilon. He was elected to membership in The Moles in 1948.



MOLES . . . here and there



- **BILL YOUNGS** has done it again. In America's Builders (Vol. 9 - No. 3, March 1966) Bill has entwined, in one issue, highlights of The Moles' 26th Annual Award Dinner together with the Beavers' 11th Annual Award Dinner. Congratulations on a job well done. (Just so happens there are some copies of this at The Moles' office so if any of our members would like to have a copy just let us know, or better still drop by and pick one up). We're sure you'll find it a prize memento.
- **CLARENCE B. SHARP**, President of Whaling City Dredge & Dock Corp., Groton, Connecticut, was elected Mayor of the City of Groton on May 2, 1966. Mr. Sharp has been very active in the civic affairs of Groton for many years and he says, "while he is not a politician as such he has been interested only to the extent of helping to make Groton a better place to live." All The Moles wish him well in his efforts.
- Congratulations to **CARLTON PROCTOR** and his wife on their 50th Wedding Anniversary, they've been celebrating in Europe.
- **AL HEDEFINE** received the outstanding alumnus engineering award from Rutgers Engineering Society. Mr. Hedefine was honored at the Rutgers College of Engineering bi-centennial dinner on Friday, April 29th.
- **HOWARD (DICK) G. DIXON, JR.**, now affiliated with Dillingham Corporation as Resident Manager for the joint venture Dillingham-Zachry-Kaiser engaged in building military facilities in Thailand operating under a U.S. Navy Contract administered by the Bureau of Yards & Docks. Good Luck Dick! We'll miss seeing you around for a while.
- **ARTHUR E. POOLE**, President of the Hallen Construction Company, Inc., Island Park, New York, was installed, early this year, as President of the Pipe Line Contractors Association. The Association, national in scope, is headquartered in Dallas, Texas and represents 80% of all contractors, manufacturers and distributors of mainline pipelines in the United States. Since several of the member contractors are also engaged abroad, the Pipe Line Contractors Association established an International Division of the Association at its last convention.
- **ENOCH R. NEEDLES**, partner in the consulting firm of Howard, Needles, Tammen & Bergendoff was elevated to National Honor Member of Chi Epsilon, National Civil Engineering Honor Fraternity, at a ceremony held on May 6th. Mr. Needles is a Life Member of the American Society of Civil Engineers and a Past President of the Metropolitan Section.
- **EMIL H. PRAEGER**, partner in the consulting firm of Praeger-Kavanagh-Waterbury, will be awarded the highest honor the American Society of Civil Engineers bestows, when he receives Honorary Membership of the Society at their Annual Meeting in Philadelphia in October. This award is given only to members considered to be tops in their particular fields. At present there are only 46 living Honorary Members among the 56,000 members of the organization.
- The Moles' President, **HANK BOSCHEN**, came in first out of 40 in the Class B Division with his sloop, Sirius, over the Memorial Day weekend. It was a 200 mile race from Larchmont Yacht Club around Block Island finishing up at Stamford Yacht Club. Congratulations and smooth sailing.
- Congratulations are in order for **ED QUIRIN**, President and Chairman of the Board of Frederic R. Harris, Inc., for a job well done and to Engineering News-Record (June 2, 1966 issue) for recognizing and reporting it. Since 1950 when Mr. Quirin took office as President, the organization has more than doubled in size. The continued growth and diversification of the firm's operations extending all over the world is due to Mr. Quirin's leadership.
- Gen. **LUCIUS D. CLAY** has recently agreed to head up an agency to help revitalize industry in New York City. This will be chartered as the Public Development Corporation and will be a non-profit, quasi-public agency empowered to construct manufacturing plants, warehouses, truck terminals, piers and lease such facilities to private concerns. The purpose, we understand, is to attract new business and to stem the tide of businesses leaving the city. General Clay and 20 other members of the Board of Directors will serve without pay.
- It was good to see **FRANK X. MURPHY** up from Jamaica on May 4th at the Annual Business Meeting and Dinner. Frank, a partner in the firm of Leonard I. Chang (Eng.) Ltd., Engineers and Contractors in Kingston, Jamaica, is doing very well we understand. He still manages to come up to New York for most of The Moles' functions. By the way, Frank extended an invitation to any Moles traveling in the vicinity to get in touch with him and especially those who play golf as he says, "we have some really excellent courses here."
- **SHERMAN H. SERRE** has advised that Merritt-Chapman & Scott's former Great Lakes Division and FitzSimons & Connell Dredge & Dock Division has been acquired by and are now operating under the new ownership of Dunbar & Sullivan Dredging Co., of Detroit, Michigan. The two divisions will continue under the management of Mr. Serre, Executive Vice President, maintaining substantially the same offices, yards, personnel, equipment, etc., as heretofore, at Cleveland and Chicago.
- **BERTRAM D. TALLAMY** and associates were recently awarded an assignment by The Highway Research Board to develop a "comprehensive and coordinated frame-work of national highway research needs."
- **EUGENE F. GIBBONS** has recently been appointed as a Vice President of McFarland-Johnson Engineers, Inc., working out of their office in Mineola, New York.
- The Board of Dravo Corporation conferred the title of "Honorary Chairman" upon their former President and Chairman, **CARL B. JANSEN**, at their annual meeting on April 28th. After 44 years, Mr. Jansen ended all professional ties with the Dravo Corporation. A year ago he retired from active participation in the organization's engineering activities. In the American Society of Civil Engineers, he has been both Vice President and President of the Pittsburgh Section and, at present he is Director for District 4. Honors accorded him during his career include The Moles' Award for outstanding achievement in construction in 1955; American Society of Civil Engineers' "A. P. Greensfelder Construction Prize" for an article in Civil Engineering in 1943; and the Pittsburgh Civil Engineering Award from American Society of Civil Engineers' Pittsburgh Section last year. On May 31st, Mr. Jansen celebrated his 66th birthday.