

JULY, 2003

BOB LENZ AND RUBE SAMUELS BECOME LIFE MEMBERS OF THE MOLES



Moles President Peter S. Schneidkraut presents 40 Year Certificate to Bob Lenz.



Moles President Peter S. Schneidkraut presents 40 Year Certificate to Reuben Samuels

Life Membership in The Moles is the highest form of membership. It requires one to be an active dues paying member of the Moles for forty years. Obviously, only those who gain Moles membership at an early age and continue to be active in the industry can so qualify.

BOB LENZ joined Moretrench Corporation upon earning his Civil Engineering Degree from Cooper Union in 1950. Bob remained with Moretrench throughout his entire career, during which time Moretrench acquired American Dewatering Company. Bob retired as CEO of Moretrench American Corporation and moved to Stuart, Florida where he continues to be active serving Moretrench and others as a consultant on dewatering problems. Bob was the Recipient of The Moles Member Award in 1989.

REUBEN SAMUELS was likely the youngest President of the Moles when he assumed office in 1973 at the age of 47. Rube earned his Civil Engineering Degree from Dartmouth College and after service in the U.S. Navy and after earning a Masters Degree from Harvard University he was employed by the predecessor firm of Mueser Rutledge. He subsequently went to work for Crimmins Contracting Company, where he spent the bulk of his career. Rube received The Moles Member Award in 1988 and has continued active in the industry working for Parsons Brinckerhoff.

With the addition of Bob Lenz and Rube Samuels, there are now 17 Life Members of The Moles.

COMMITTEE MEMBERS FOR 2003

The following Committee assignments have been made for the current year.

AWARD COMMITTEE: Chairman, Richard S. Weeks, Vice Chairman, Salvatore Mancini, Members at Large, Robert J. Jenny and Zohrab B. Marashlian

MEMBERSHIP COMMITTEE: John A. Rupich, Chairman, Arthur B. Corwin, Vice Chairman, Henry E. Adams, Gary Almeraris, Martin T. Corcoran, Louis S. D'Amico, Brian J. Flaherty, Michael R. Huie, Lawrence H. Lehman, Paul S. Pedini

PROGRAM COMMITTEE: Joseph M. McCann, Chairman, William V. McGuinness III, Vice Chairman, Hugh P. Caspe, Peter W. Deming, John Civetta, Jr., Richard H. Di Louie, Jr., Robert J. Hill, George P. Neumann, Richard J. Redmond, Jr., Matthew M. Neumann, John R. Roma

FINANCE COMMITTEE: Joseph D. Guertin, Chairman, Ronald A. Gottlieb, James E. Kelly, Jr., George G. Searle, Peter K. Tully

EDUCATION COMMITTEE: Joseph F. Malandro, Chairman, Michael M. McHugh, Vice Chairman, John Bidosky, Alfonso Daloisio, Jr., Cesare De Rose, Sr., Daniel M. Hahn, Burton P. Kassap, Edward S. Plotkin, Arturo Ressi Di Cerva

PUBLICITY COMMITTEE: Robert E. Alger, Chairman, Joel Moskowitz, Vice Chairman, James J. Brady, David M. Cacoilo, Andrew F. Catapano, Anthony G. Cracchiolo, Thomas J. King, Glen Vogel

REMINDER NOVEMBER MEMBERS DINNER

New York Hilton Hotel
Wednesday
November 5, 2003

NEWS OF MEMBERS

This year's recipient of the ASCE Outstanding Projects and Leaders (OPAL) Award for Construction was KENNETH E. STINSON, CEO of Peter Kiewit Son's, Inc. Previous recipients of the award were Stephen D. Bechtel, Jr., and Ben C. Gerwick.

RICHARD J. RACZYNSKI, Chief Engineer of the New Jersey Turnpike Authority, was honored as Government Engineer of The Year by the North Jersey branch of the American Society of Civil Engineers at a dinner on May 16, 2003.

GEORGE J. TAMARO continues to garner honors. He recently received the Ralph B. Peck Award from the ASCE Geo-Institute. He will become an Honorary Member of ASCE at its Annual Convention in Nashville in November at which time he will also receive the Edmund Friedman Professional Recognition Award for his dedication and leadership in the World Trade Center Recovery.

A MOMENT OF SILENCE

JOHN J. HYLAND died suddenly on Friday, May 16, 2003 at the age of 80. Jack was a graduate of Cornell University and spent virtually his entire career with Walsh Construction Company. His uncle, Richard V. Hyland, 1951 President of the Moles was a co-founder of the prominent engineering firm of Madigan Hyalnd.

C. RICHARD WALTER, former CEO of Hazen & Sawyer P.C., died on June 11, 2003, at the age of 74. Dick joined Hazen & Sawyer shortly after graduating from Manhattan College. He was a diplomate of the American Academy of Environmental Engineering and recipient of many industry honors.

THE MOLES

Holing Through is published by The Moles three times a year: April, July and November. The Moles is an organization of people engaged in Heavy Construction. Its purpose is to promote better acquaintance among individuals engaged in heavy construction to the end:

- That past and future friendships and a spirit of fraternization among the members be fostered.
- That meetings and other gatherings be held to exchange construction information and promote good fellowship among the members.
- That advancement of the Construction art be achieved, and outstanding performance be recognized through awards and otherwise.
- That the youth of our country be encouraged to participate in heavy construction by a multi purpose program of education in cooperation with engineering colleges and other associations.
- That, in the public interest, standards of construction shall be raised both as to engineering and business ethics.

The Moles' office is located at 577 Chestnut Ridge Road, Woodcliff Lake, New Jersey 07677. Telephone: 201-930-1923 Fax: 201-930-8501 Executive Director and Editor of Holing Through: : Gerard J. Carty, P.E.

JOIN YOUR FELLOW MOLES AND FRIENDS FOR THE 2003 CLAMBAKE TRAVERS ISLAND - AUGUST 5TH

THE MOLES SCHOLARSHIP FUND



TRAVERS ISLAND CLUBHOUSE

**REGISTRATION
11:30A.M. TO 5:30 P.M.**

•
**LUNCH
11:30A.M. TO 2:00 PM.**

•
**OUTDOOR GAMES
2 P.M. to 5 P.M.**

•
TENNIS TOURNAMENT

•
SOFTBALL GAME

•
**TUG BOAT RIDES
Noon to 5 P.M.**

•
**SURF & TURF DINNER
SERVED AT 5:30 P.M.**

***GOLF AT LEEWOOD
GOLF CLUB IN A.M.***

**COME OUT AND HAVE
A GREAT DAY**

The major renovation of the Travers Island Clubhouse which was completed in time for last year's Clambake has transformed the building into a modern comfortable facility which serves the needs of the Moles exceptionally well.

Moles members and their guests come to the Clambake to spend time with friends and business colleagues to renew old acquaintances and to forge new friendships. There is ample time and opportunity to do this: one can start with golf in the morning at Leewood Golf Club; over a leisurely lunch; in the olympic size swimming pool; on the tugboat ride; playing tennis; or just hanging out in the grove overlooking the softball field which is well shaded and cool. Beer and soda is available all day around the grounds.

Then there is the magnificent surf and turf dinner in comfortable seating and surroundings. An opportunity to see those who you missed seeing earlier during the day. Yes, there is something for every body to do and enjoy..

For those from out of town, accommodations are available in the Westchester Renaissance Hotel in White Plains.

The Moles charter (which is shown on page 2 and appears in every issue of *Holing Through*) calls for The Moles to work with the engineering colleges to encourage the youth of our country to participate in heavy construction.

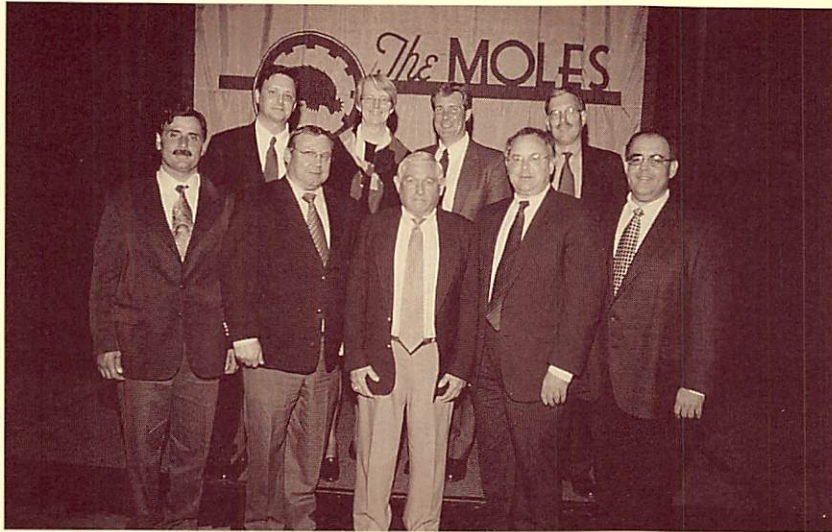
The centerpiece of this program is the Annual Student's Day held each April. In conjunction with that program, The Moles presents a Student Award to a student at each of the 20 colleges and universities participating in the The Moles Education program who demonstrates the most aptitude in construction.

These are very effective programs and continue to be so. However, in 1996, the leadership of The Moles decided it was time to do more and The Moles Scholarship Fund was established with an initial goal of \$2 Mil. Approximately \$1.2 Mil. has been contributed to date to the fund and this past year the fund distributed thirteen \$3,000.00 scholarships and two \$1,000.00.

Past Presidents Ray Oneglia and George Tamaro are serving as Co-Chairman of the committee whose job it is to get us to the \$2 Mil. goal. MARTIN KELLEY and JIM CLARK did much to get us to where we are now by offering matching gifts of \$100,000.00. Norm Nadel, Mueser Rutledge and Parsons Brinckerhoff each contributed \$50,000.00 and many other companies and individuals have made generous contributions. Surpluses from The Moles operating account have gone to the Scholarship Fund.

When you are contacted for a contribution, please remember the success you have enjoyed and the blessings you have received and help those young persons who are to follow in our footsteps.

NEW MEMBERS



**Left to Right: Front Row - Michael Attardo, John J. Raine, Charles M. Levine, Brent R. Leisenring, Kenneth R. Ouellette
Back Row - Scott J. Spota, Connie Crawford, John H. O'Keefe, Peter L. Rinaldi**

MICHAEL ATTARDO joined Slattery in 1980 upon his graduation from Tufts University, having earned a Degree in Civil Engineering. He has spent his entire career with Slattery and most recently has been serving as General Superintendent on the \$1Bil. Light Rail Project at JFK Airport.

WILLIAM R. BELOFF is Chief Executive Officer of GZA GeoEnvironmental, Inc., a national geotechnical and environmental company operating on a national basis with headquarters in Norwood, Massachusetts. Bill holds both Bachelor and Masters Degrees in Civil Engineering from Worcester Polytechnic Institute

After a twenty four year career with Peter Kiewit Son's, Inc., WESLEY BERMEL recently joined Judlau Contracting, Inc., a New York City Construction Company as Project Manager/Chief Estimator. He earned a Bachelors Degree in Geological Engineering from Montana College of Mineral Science and Technology.

Since 1949 FORREST W. BRADBURY's career has been in drilling and blasting. He is now President of Northeast Drilling, Inc., Hollis, Maine. The company is active in the Washington, D.C. and New York City areas installing tiebacks and mini piles.

After spending her earlier career with Steinman Boynton Gronquist & Birdsall on a variety of bridge projects and as Chief Engineer for the NYCDOT, COSEMA (CONNIE) CRAWFORD now serves as Vice President and Deputy Chief Engineer of the New York City Transit Authority. She holds both Bachelor and Masters Degrees from Princeton University.

After a career with Morrison Knudsen, Stone & Webster and Haley & Aldrich (almost all of which was related to tunnel work) RAYMOND W. HENN has recently formed the new company of Lyman Henn, Inc., Denver Colorado, having purchased the assets of Haley & Aldrich's Denver operations. Ray earned an

undergraduate degree in geology from the City University of New York and a Masters Degree from the State University of New York.

HEYMI J. KURIEL is a Partner in the New York City foundation construction company, Urban Foundation/Engineering, LLC. where he is in charge of all field operations. He earned his Civil Engineering degree from the Federal Polytechnic Institute of Lausanne, Switzerland.

BRENT R. LEISENRING is President and Owner of Elgood Mayo, Co., Lancaster, PA. The firm designs, fabricates and supplies specialized construction equipment to the heavy construction industry and leases hydraulic jacking systems and engineers complex heavy lifts for contractors. Brent is a Civil Engineering graduate of Penn State University.

CHARLES M. LEVINE has been involved in the heavy, highway and marine construction industry since earning his Civil Engineering degree from Northeastern University in 1964. After a 29 year career with J.F. White Contracting Company, he is now with Barletta Heavy Division, serving as Senior Project Manager and Senior Estimator.

DOUGLAS B. MACKIE has worked in the dredging and marine construction industry for almost 25 years and is now President and Chief Executive Officer of Great Lakes Dredge & Dock Company. He holds a Bachelor Degree from Wake Forest University, a Law Degree from Northern Illinois University and an MBA from the University of Chicago.

CHARLES J. MONTALBANO is Vice President of E.E. Cruz & Co., Inc. and is currently serving as project manager in charge of their \$125 Mil. Flushing Bay Combined Sewer

Storage Project in Flushing, New York. He holds a Civil Engineering Degree from Rutgers University.

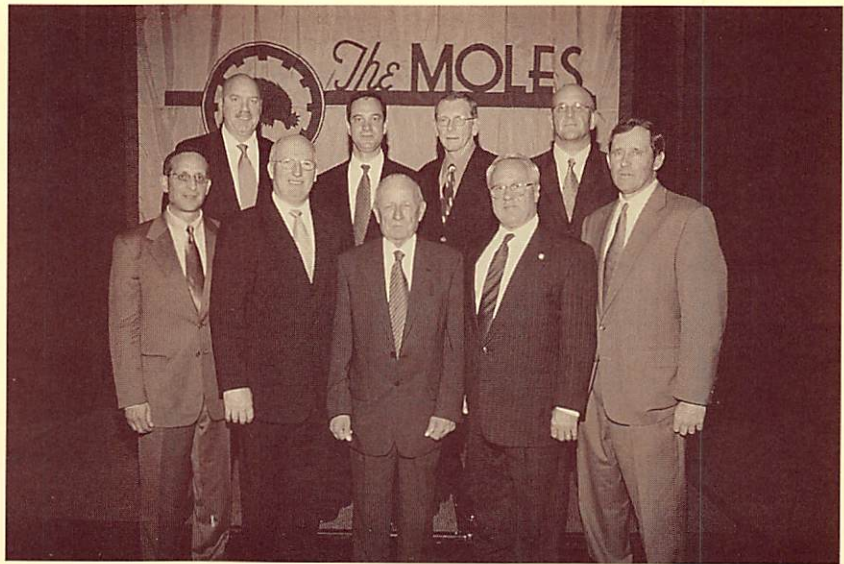
Prior to assuming the position of President and CEO of J.A. Jones, Inc., ALFRED V. NEFFGEN was head of their Construction Services Group. He is a graduate of Pennsylvania State University and he earned an MBA from Marymount University.

JOSEPH H. O'KEEFE'S career has been in pile driving and marine construction work. He now serves as Project Manager and General Superintendent for Spearin, Preston and Burrows. He is a Civil Engineering graduate of Manhattan College.

KENNETH R. OUELLETTE has been employed by Peter Kiewit Sons, Inc. since 1986 and now serves as Area Manager for Kiewit Constructors, Inc., Park Ridge, New Jersey. Ken is a Civil Engineering graduate of the University of Maine.

MICHAEL J. PAQUET founded M.J. Paquet, Inc., Palisades Park, New Jersey and has developed the company into one of the larger construction companies in New Jersey. He has recently served as President of the AGC of New Jersey.

J. JEFF RAINE has been employed by Peter Kiewit Sons, Inc., since his graduation from the University of British Columbia with a Civil Engineering Degree in 1979. He now serves as Vice President and District



**Left to Right: Front Row: Henry Kuriel, Wesley Bermel, Forrest W. Bradbury, Raymond W. Henn, Douglas B. Mackie
Back Row: Michael J. Paquet, Charles J. Montalbano, William R. Beloff, Andrew D. Walker,**

Manager of Kiewit's Underground Division.

PETER L. RINALDI serves as Engineering Program manager for the Port Authority of New York & New Jersey. In this position he has served as manager for the World Trade Center Below Grade Recovery Effort. He is a Civil Engineering graduate of Manhattan College and He earned a Masters Degree from Polytechnic University.

SCOTT J. SPOTA is Executive Vice President of J.C. McElroy Company, Inc., located in Piscataway, New Jersey. Mc Elroy the company

provides fabricated steel components for the marine and construction industry as well as for the power generation industry. Scott is a graduate of Seton Hall University.

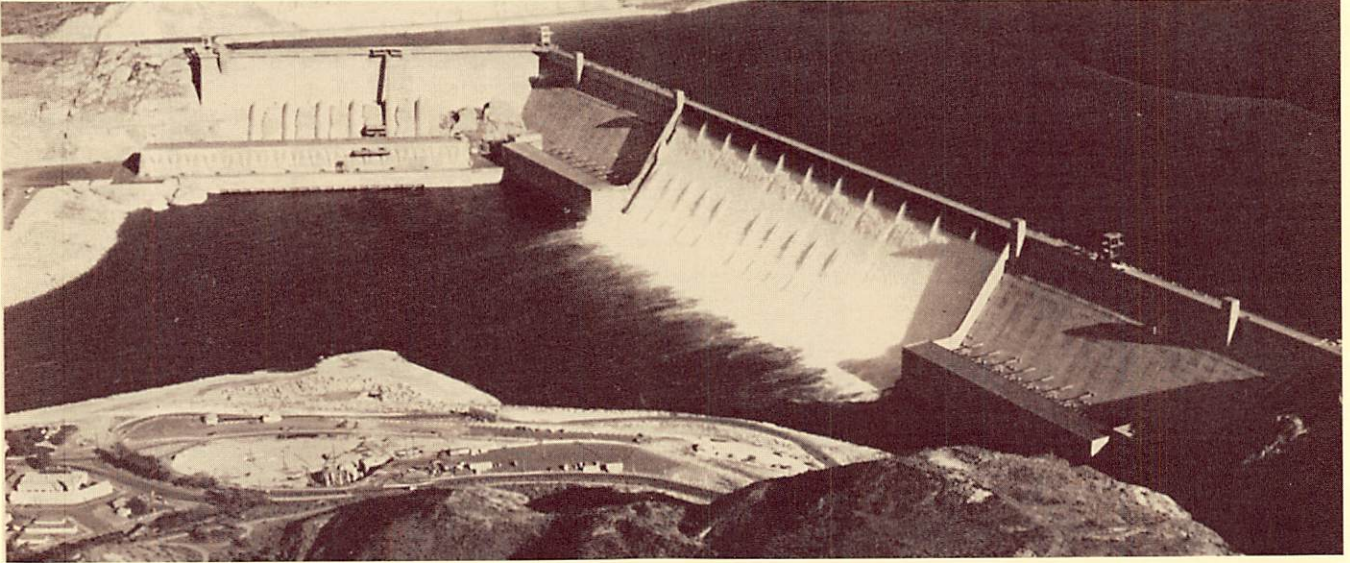
ANDREW D. WALKER is President of Nicholson Construction Company, Cuddy, PA. Among other projects, the firm was involved in the World Trade Center Recovery Project, installing the new tie back anchors. Andy is a Civil Engineering Graduate of the University of Birmingham, U.K. and he earned a Masters Degree in Rock Mechanics from the University of New Castle Upon Tyne, U.K.

**CONGRATULATIONS ON YOUR ELECTION TO MEMBERSHIP IN
THE MOLES - LET'S PLAN TO BE AN ACTIVE MEMBER**

**REMINDER
2004 AWARD DINNER
NEW YORK HILTON HOTEL
JANUARY 28, 2004
MAKE PLANS NOW TO ATTEND**

**REMINDER
WINTER MEETING
FEBRUARY 26 - 29, 2004
LA PLAYA BEACH RESORT
NAPLES, FLORIDA**

GRAND COULEE DAM THE MIGHTIEST OF THEM ALL



It is a great service to the construction industry when upon the completion of a major project, a book or other publication is prepared that records for posterity the events of the project. There have been articles in *Holing Through* about major projects which were drawn from the books written by those intimately involved in the project.

Mangla Dam (described in the July 2002 issue of *Holing Through*) was well documented by books by the Institution of Civil Engineers, London and by Joe McNabb's autobiography, *Ozark Hillbilly - CEO*.

Another such publication is *THE MIGHTIEST OF THEM ALL: Memories of Grand Coulee Dam*, written by L. Vaughn Downs and published by ASCE Press. Mr. Downs was a civil engineering graduate of the University of Kansas; hired by the Bureau of Reclamation upon graduation, and was on the site during construction from beginning to end continued to be involved at the dam until April 1950. He was asked to write his recollections of Grand Coulee Dam in 1985 by the Kiwanis Club of Ephrata, Washington and he subsequently put together the 196 page book, as described above. The book contains over 150 illustrations and photographs and records in detail all of the happenings on the project, both design and construction.

Grand Coulee Dam is located on the Columbia River in Eastern Washington about 70 miles west of Spokane. After being elected in November 1932, President Roosevelt in early 1933, promised to authorize \$63 Mil. to start work on the project as a Public Works Administration Project (PWA). At that time the thinking was that a Low Dam

would be constructed. Plans were developed by the Bureau in their Denver office for a Low Dam (to elevation 1116) and bids were received on June 18, 1934. The low bid at \$29,339,301.50 was received from a Joint Venture of Silas Mason Company of Louisville, Kentucky and New York City, Walsh Construction Company of Davenport, Iowa and the Atkinson Kier Company of San Francisco and San Diego. The second bidder was from the Six Companies, the Joint Venture which at that time was constructing Boulder Dam.

Boulder Dam had been bid on March 4, 1931 by the Six Companies at \$48,890,000.00. The Six Companies Joint Venture consisted of Morrison Knudsen, Utah Construction Company, Bechtel, Kaiser, and Shea. So it can be seen that at the time of the bidding of Grand Coulee, the Six Companies were in the midst of building Boulder Dam and thus may not have the resources to take on another major construction project and this may have influenced their higher bid.

Shortly after construction got underway, a group of local businessmen and other, began pressing for the construction of a High Dam (to elevation 1311- 195 ft. higher than the then contemplated Low Dam). On June 5, 1935, a change order was executed with the contractor (known as MWAK - Mason, Walsh, Atkinson, Kier) in the amount of \$7 Mil. to modify the Low Dam to accommodate the High Dam. This brought the value of the construction contract to \$36 Mil.

While Frank Crowe (Moses 1945 Non Member award Recipient) was the superintendent on Boulder Dam, Harvey Slocum (1956 Non Member award Recipient) was superintendent of Grand Coulee Dam. George Atkinson (son of

(Continued on following page)

GRAND COULEE DAM (continued)

Guy F. Atkinson) assumed the position of General Manager of MWAK in 1935 at the age of 30. Jack Walsh (President of the Moles in 1964) was an engineer on the job.

Bids for the High Dam were opened on December 10, 1937. The low bid (23% below the second bidder, Pacific Constructors, Inc.) was by a Joint Venture, which included all of the contractors in the MWAK Joint Venture and all of the contractors in the Six Companies Joint Venture. Thus the builders of Boulder Dam and Grand Coulee Low Dam joined together to construct Grand Coulee High Dam. The amount of the bid was \$34,442,240.00. The two contracts for the Grand Coulee Dam thus totaled \$70,781,000, considerably more than Boulder Dam (\$48,890,000) although Boulder Dam was three to four years ahead of Grand Coulee Dam. Mr. Vaughn stated in his book, at the time of the start of construction, that Grand Coulee Dam would become the largest masonry structure ever built.

Of course, like Mangla Dam in West Pakistan, the care and feeding of the labor force was a key item to the success of the project. A camp was constructed to house the workman and Vaughn writes "The food was of excellent quality and served family style at tables of eight. Harvey Slocum didn't think he could get a full day's work from an underfed man and no one who ate at his mess hall could ever say he hadn't had enough to eat." The average labor rate for the entire MWAK contract was 0.85/hour.

CBI apparently part of Kaiser at that time was low bidder on the penstock contract and Edgar Kaiser was the on site

general manager.

The photograph below is a classic. Apparently taken at the time of bidding for the High Dam in December 1937. In the photograph are the following :

Front Row

Henry J. Kaiser - second from left - Kaiser Construction Company

Thomas Walsh - third from left - President of Walsh Construction Company and Moles Member Award Recipient - 1955

Guy F. Atkinson - fourth from left - President of Guy F. Atkinson Company and Moles Non Member Award recipient 1957

Charles A. Shea - fifth from left - President of J.F Shea Company

Francis Donaldson - sixth from left -at the time Vice President of MWAK - Recipient of 1958 Non Member Award

Rear Row

Edgar Kaiser - sixth from left - Recipient of Non Member Award 1963

Harry Morrison - Morrison Knudsen Company - recipient of 1947 Non Member Award

George H. Atkinson - third from right -,Guy F. Atkinson Company - Recipient of 1966 Non Member Award

Gil Shea - second from right - J.F. Shea Company

Thanks Vaughn Downs for memorializing such a magnificent project.

Grand Coulee Dam ranks as the second largest dam in the world in electrical power generation at 10,830 MW, second only to Itaipu Dam in South America.



MAY 7, 2003 BUSINESS MEETING AND DINNER

OTHER 40 YEAR MEMBERS

In addition to Bob Lenz and Rube Samuels who received their Life Membership certificates at the May meeting, Chuck Edgar and Leonard Van Houten were present to receive their Life Emeritus certificates..



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NEW YORK CITY'S QUEST FOR 2012 OLYMPIC GAMES SUBJECT OF LECTURE



Brenda Levin and Jay Cross

Brenda Levin of NYC 2012, the organization bidding to host the Olympic Games in the summer of 2012, and Jay Cross, the President of the New York Jets, made an excellent presentation on the reasons why NYC should be selected to host the games. Cross' talk centered on the new stadium the Jets are proposing to construct on the west side of Manhattan just south of the Javits Center while Levin reviewed all of the existing and proposed facilities which would be available for the games. A very compelling presentation! However, the recent announcement that Vancouver, Canada has been chosen as the site for the 2010 Winter Games would seem to diminish NYC's chances for the Summer games as many believe that successive winter and summer games would not be held on the same continent

GEORGE TAMARO ACTIVE SPEAKING ABOUT WORLD TRADE CENTER

Ray Oneglia, President of the Connecticut Road Builders Association, recently welcomed George Tamnaro as the guest speaker at its recent Annual Spring Meeting



Left to right: Tom Gelormino, Ray Oneglia, George Tamaro, David Oneglia, Hank Adams and Remy Papp. Not in photo but also present at meeting were Tim Arborio and Peter Vigue.



Former Moles President George Tamaro and Executive Director Gerry Carty traveled to West Point in April to attend the Joint ASCE Student Chapter Meeting of students from RPI, Union College and West Point. George presented a talk on the World Trade Center. A strong relationship exists between The Moles and West Point and Tamaro and Carty were warmly welcomed by the West Point engineering school faculty and were given a private tour of the academy facilities.