



WALTER ELYON, PE, CEM, LEED AP, QCxP

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OBJECTIVE

A position as ENGINEER, MANAGER OR COORDINATOR in an environmentally oriented company dealing with energy conservation or water and groundwater treatment and supply.

PROFILE AND HIGHLIGHTS

- Creative thinker with strong analytical, programming, research, writing, teaching and engineering skills. Proven track record in energy conservation field. Solid background in water and groundwater treatment and supply. Ph.D. (ABD) program in Civil Engineering, Master's in Environmental Engineering, plus Hydrogeology studies.
- **Honor:** Fulbright Scholarship for Environmental Studies at Colorado State University.
- Developed the Visual Basic programming for New York City Housing Authority database. Database is now marketed to multifamily housing managers across the country.
- Wrote reports that secured repeated funding for more than 5 years from the Department of Energy (see publications).
- Proficient in Visual Basic (VBA) programming, Access 2000 database development, AutoCAD Release 2000, Microsoft Excel and Word. Bilingual: English / German.
- Developed user-friendly interface and scientific equation database for the HP 48GX/49G palmtop computer. Program is used as a study aid in PE review courses
- Taught college-level courses in Applied Hydrogeology and Contaminant Hydrogeology.

PROFESSIONAL ENGINEERING EXPERIENCE

Johnson Controls, New York, NY
Project Development Engineer

April, 2010 – present

- Performed e-Quest modeling for commercial buildings such the Empire State Building and One Grand Central Place. Conducted energy audits of the Port Authority Bus Terminal including evaluation of Solar Energy potential.

AECOM ENERGY, New York, NY
Senior Energy Engineer

May, 2009 – March 2010

- Performed feasibility studies for the New York City Housing Authority (NYCHA) including detailed assessment of heat losses of domestic hot water tanks and condenser – vacuum pump arrangements.

- Conducted energy studies for Lehman College in the Bronx, NY, evaluating saving strategies such as ice storage and analyzing various steam/electric chiller options.
- Analyzed renewable energy options for the Manhattan Center for Science and Mathematics in Harlem, New York. Measures included a 150 kW photovoltaic system, a 1,400 MMBtu/yr Parabolic Trough Solar Collector system for heating and absorption cooling, and a 250 kW wind turbine.

GREEN BUILDINGS TECHNOLOGY INTERNATIONAL, Inc., NY July 2001 – present
Partner and Senior Energy Consultant

- Installation of thermal and electric (photovoltaic) solar systems on Long Island, NY.
- Consultant to sustainable energy companies such as CodeGreen Solutions, Inc.
- Multifamily Performance Partner for NYSERDA. Conducted energy audits for various multifamily buildings in New York. Prepared energy reduction plans (ERPs) using NYSERDA's Benchmarking Simulation Tool.
- Representative of Sunlight Solar Energy of Milford, Connecticut, for the state of New York.
- Authorized representative for Mid Bronx Senior Citizens Council (MBSCC), managing over 30 multifamily buildings with 1300 units in New York City. Realized savings over \$2,000,000 through engineering analysis and renegotiating of rate structures with major city utilities. Performed energy modeling with PowerDOE for all the buildings of MBSCC.
- During 2002 representative of RLW Analytics for the greater New York Metropolitan area. Served as major liaison for RLW, primarily with utilities such as the New York Power Authority and ConEdison. Performed technical energy audits for utility customers such as hospitals, university campuses and commercial buildings.

EME GROUP CONSULTING ENGINEERS, New York, NY 1994 – July 2001
Project and Design Engineer and Researcher

- Conducted energy studies for
 - commercial construction projects such as schools, office buildings and hotels.
 - hospitals, government and military-base buildings as part of the SAVEnergy Program sponsored by the U.S. Department of Energy and implemented by the Office of Federal Energy Management Programs (FEMP).
 - multi-family apartment buildings located in Manhattan as part of the Apartment Building Conservation Program sponsored by Con Edison.
- Reviewed blueprints and specifications. Used building simulations tools such as Trane C.D.S. Trace 700 and PowerDOE. Surveyed building envelope, HVAC and electrical systems. Analyzed engineering data, calculated utility incentives and life-cycle costs. Wrote reports with recommendations on energy conservation measures.
- Designed low-pressure steam and hydronic heating systems, constant and variable air volume HVAC systems for Pratt Institute, United Nation International School, Related Management Inc. and Volunteers of America.

- Analyzed water conservation measures for 3000 apartments in New York City and wrote 2 reports for the New York State Energy Research and Development Authority (NYSERDA). Reports contributed to revision of industry standards. Designed HVAC and plumbing systems for high-rise buildings using AutoCAD 2000.
- Designed Access database for energy audits of 400 buildings managed by the New York City Housing Authority (NYCHA). Program allows customer to generate energy conservation reports for 400 housing projects and 200,000 apartments with a few keystrokes.

BROOKHAVEN NATIONAL LABORATORY,
ENVIRONMENTAL CHEMISTRY DIVISION, Upton, NY
Environmental Researcher

1984 – 1993

- Directed and managed environmental research programs such as the Underground Storage Leakage Program and the Oil-Filled Power Cable Program with budgets of over \$500,000. Located origin of pollution plumes with one-foot accuracy through application of tracers.
- Coordinated and managed the International Housing Village, the Passive Solar Program and the Metal Buildings Energy Conservation Program.
- Successfully negotiated with European energy conservation researchers and supervised construction of Scandinavian model home at the International Housing Village.
- Established Metal Buildings Energy Conservation Program through lecture series and demonstrations. Maintained liaison between government and industry.
- Instrumented test buildings, monitored energy performance and analyzed data. Documented energy savings with favorable 13% rate of internal return through insulating beams and slabs in metal buildings.

NATIONAL ASSOCIATION OF HOMEBUILDERS RESEARCH FOUNDATION,
 Washington, DC
Senior Engineer

1983 – 1984

- Served as Principal Investigator of the Solar Phase Change Program.
- Compared performance of 2 rooms in test house, one with phase change panels for heat storage, the other with conventional construction. Demonstrated that phase change materials reduce heating requirements and temperature peaks by about 50%. Wrote report.

SOLARON CORPORATION, Denver, CO
Research Engineer

1980 – 1983

- Principal Investigator of Horizontal Rock Box Heat Storage and Integral Storage Collector Program. Demonstrated that horizontal storage devices outperform vertical ones by 5% at a 25% lower first cost of investment
- Suggested and implemented innovative air flow devices.
- Designed and constructed plastic prototype of Integral Storage Collector.
- Created finite difference simulation that predicted yearly performance. Theoretical model led to production of collectors

EDUCATION AND TRAINING

Qualified Commissioning Process Provider (QCxP), University of Wisconsin, June 2008
Certified Multifamily Building Analyst, BPI (Building Performance Institute), July 2008
Multifamily Treat Training, Performance Systems Development, June 2008
eQuest Training, Energy Center of Wisconsin, April 2-3, 2008
Solar Hot Water Heating Course, ETM, Endicott, NY, June 2006
Photovoltaics Design and Installation, Solar Energy International, Carbondale, CO, May 2006
Photovoltaics Design Online Course, Solar Energy International, Carbondale, CO, April 2006
Photovoltaics Course, Bronx Community College, December 2004
Professional Engineering License # 078588, State of New York, February 2001
Certified Energy Manager # 9174, Association of Energy Engineers, December 2001
Ph.D. program (ABD), Civil Engineering, COLORADO STATE UNIVERSITY, 1980
M.S., Environmental Engineering, COLORADO STATE UNIVERSITY, 1976
Civil Engineering Diploma, Universität für Bodenkultur, Vienna, Austria, 1973

COMPUTER LANGUAGES AND SOFTWARE

MS Word, ACCESS and Excel, Visual Basics for Applications, eQuest, AutoCAD 2007

TEACHING EXPERIENCE

HUNTER COLLEGE, New York, NY 1994 – 1997
Associate Lecturer

- Taught courses in Applied Hydrogeology and Contaminant Hydrogeology.

PUBLICATIONS

(In 2005 I had my name legally changed from Walter Loss to Walter Elyon*).

Loss-Elyon*, W. M., Heat Energy in *Encyclopedia of the Environment*, Eblen R., and Eblen W., Editors, The Rene Dubos Center for Human Environments, 1999.

Loss-Elyon*, W. M., Low Flow Showerhead Demonstration, New York State Energy Research and Development Authority (NYSERDA) Report 98-4, January 1998.

Loss-Elyon*, W. M. and Dietz, R. N., HPF Cable Leak Detection using Perfluro-Carbon Tracers, BNL Report, May 1998.

Loss-Elyon*, W. M., Neumann, E., et al., Domestic Hot Water Consumption and Efficiency, NYSERDA Report 97-2, February 1997.

Loss-Elyon*, W. M. and Dietz, R. N., Condenser Air In-Leakage at the LILCO Northport Power Plant, BNL Report 47181, February 1992.

Loss-Elyon*, W. M. and Dietz, R. N., Generator Stator Bar Leak Quantification and Pinpointing, BNL Report 44436, March 1990.

Loss-Elyon*, W. M., Metal Buildings Study: Performance of Materials and Field Validation, BNL Report 52134, January 1988.

Loss-Elyon*, W. M., Jones R. F., and Cerniglia, P., The Danish House: First Year's Monitoring Results, BNL Report 38790, August 1986.

Jones, R. F., **Loss-Elyon*, W. M., Dennehy, G., and Ghaffari, H. T., The Brookhaven House**, BNL Report 51860, September 1984.

Dennehy, G., **Loss-Elyon*, W. M. and Jones R. F., Evaluation of Modifications to the Mastin Double-Envelope House**, BNL Report 51803, April 1984.

Loss-Elyon*, W. M., Johnson, R. J., Heat Transfer Considerations for Passive Solar Phase Change Systems in Homes, Research on Advanced Energy Storage Devices and Systems for Passive Solar Residential Applications for Mass Market Housing, Vol. II, National Association of Home Builders Research Foundation, 1984.

Loss-Elyon*, W. M., Cost Effective Improvements of Rock Beds in Solar Air Heating Systems, DOE Report, 31-109-38-5692, 1982.

Ward, J. C., **Loss-Elyon*, W. M., and Löf, G. O. G., Direct Contact Heat Exchanger Pilot Plant Results**, ISES Proceedings, Denver CO, 1978.

Loss-Elyon*, W. M., Direkt Kontakt Wärmeaustauscher Speicher, Second International Solar Forum, Hamburg, West Germany, 1978.

References available upon request.