

HAGER-RICHTER GEOSCIENCE, INC.

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1984 - 1999 FIFTEEN YEARS OF EXCELLENCE IN GEOLOGY & GEOPHYSICS!

Message from the President

It's true. As difficult as it is for me to believe, H-R turns fifteen in 1999. I had hoped that I would be sending you an invitation to a 15th anniversary reception at our offices, but we have been so busy that we have not had time even to begin planning one.

On the other hand, what better way to celebrate this milestone than by having what's shaping up to be a grand year of exciting projects and adding exuberant young professionals to our existing excellent staff?

We simply have never been so busy before. We have our hands full right now, and everyone at H-R is thrilled about it.

*But please, don't think for a minute that H-R won't be able to find time to help you with your project needs. We want you to be a part of our 15th year, 16th year, and beyond celebrations. **Call us!***

Cordially,

*Dorothy Richter
President*

Please Welcome our New Staff Members

H-R has always been fortunate to attract truly fine professionals, and we are pleased to introduce . . .

Steven Grant, Geologist/Geophysicist. Steve joined H-R at the beginning of the year. Steve received an MSc. in Geology from the University of Alberta and a BSc. in Geology from Dalhousie University. He previously worked for the Canadian Geological Survey and spent a couple of field seasons collecting high resolution shallow seismic reflection data in various parts of central and western Canada. Steve is actively involved in most of our field and office projects.

Mary Ann Glennon, Ph.D., Geophysicist. Mary Ann received a Ph.D. in Seismology from the University of Illinois, an M.S. in Geophysics from Michigan Technological University, and a B.S. in Geophysics from Boston College. She worked as a Geophysicist at Argonne National Laboratory in Illinois for over four years processing data, interpreting, and reporting the results of environmental geophysical investigations at military sites around the globe. She brings H-R new perspectives in managing geophysical programs at large complex sites.

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Garrick Marcoux, Geologist/Geophysicist. Garrick has joined Hager-Richter after working at the USGS Water Resources Division. Garrick has an M.S. in hydrology from the University of New Hampshire and received a B.S. in Environmental/Engineering Geology from Western Washington University. Garrick is familiar with fracture trace analysis and geophysical methods in investigating fractured bedrock aquifers. Since not all of our geophysical projects are related to "clean" water resources, however, he'll quickly become involved in some of the other applications of geophysics.

Two more MS-level Geophysicists will be joining H-R after the spring semester ends. Watch for our next newsletter or check our website for info about them.

H-R & Miss Liberty

Hager-Richter Geoscience, Inc. has been awarded a contract from the National Park Service to conduct a geophysical survey across most of Liberty Island in New York Harbor, home of the Statue of Liberty. The purpose of the survey is to detect areas that might contain archeological artifacts in the subsurface.

Three complementary geophysical methods will be used at Liberty Island: electromagnetic induction terrain conductivity, magnetics, and ground penetrating radar. The field work is to be conducted in the spring of 1999. H-R will be working closely with archeologists and historians from the National Park Service in the interpretation of the data, since Liberty Island had been occupied on and off for centuries before Miss Liberty took up residence. Formal archeological excavations at the locations of interesting "anomalies" will occur next year.

Having performed a similar geophysical survey last year at the Lexington Battle

Green, site of "the shot heard 'round the world" in 1775, H-R is very proud to be a part of an archeological investigation at another focal point of enormous historic significance and emotional symbolism for our nation.

Other Projects of Note

H-R has been awarded several other contracts that promise to make this spring-summer season memorable; for example:

- H-R is conducting multiple geophysical surveys at a large industrial complex in the midwest. The site is located in karst terrain. Subsurface conditions are further complicated by a long history of underground mining. Without going into too much detail, we can say that H-R will be using a variety of seismic and electrical methods to help characterize subsurface conditions along literally miles of traverse. We are mobilizing for a long, intense field program.
- H-R will be using multiple geophysical methods to help characterize subsurface conditions at a former MGP (manufactured gas plant) site for a consortium of several utilities interested in particular problems.
- H-R is currently conducting EM and GPR surveys across a 40+ acre former industrial complex in the northeastern US as part of the environmental site assessment prior to redevelopment. H-R recently completed a similar survey at an unrelated 20-acre site in another state.
- H-R is conducting crosshole seismic surveys at a bridge in NYC.
- H-R will be conducting seismic refraction and EM surveys at a large municipal landfill in the northeast.

- H-R recently conducted detailed geophysical surveys at two unrelated landfills. At each site, H-R had conducted reconnaissance surveys several years ago for different objectives, and, in the interim, new information led to a need for further investigations in the vicinity of 'areas of buried metal' that we had detected in our previous work. (In one case, erosion exposed a cache of drums!) Some of the site players had changed, but the new consultants on the job had found H-R's original reports in the files and retained us to re-survey the areas of interest in more detail. It's not too often that we get the opportunity to re-visit a project several years later, and it made the work just a bit more interesting for us.

Other News

Dorothy Richter, H-R's President, is 1999 President of the New Hampshire Council of Professional Geologists. Dorothy also was recently appointed to the 1999 Executive Committee of the American Institute of Professional Geologists as an Advisory Board Representative. She will attend meetings of the AIPG Executive Committee in Washington in the spring and at the AIPG National Meeting in Alaska in the fall.

Visit H-R in Boston & New York in May

Hager-Richter will be exhibiting at two meetings in May. *Call us* if you want info on times or locations.

May 5-7 EnviroExpo, World Trade Center, Boston, Booth 738

May 26, 27 ASCE Metropolitan Section, Geotechnical Group, 1999 Spring Seminar on State-of-the-Art Technology in Earth and Rock Tunneling, NYC