

# HAGER-RICHTER GEOSCIENCE, INC.

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8 Industrial Way - D10  
Salem, NH 03079  
Fall, 1995

## H-R NOW THE LARGEST GEOPHYSICAL SPECIALTY FIRM IN THE NORTHEAST!

A client recently brought to our attention that Hager-Richter Geoscience, Inc. is now the largest geophysical specialty firm in the Northeast. Since reorganizing a few years ago, H-R has grown in staff from eight to fourteen and has strengthened its technical capabilities by maintaining state-of-the-art equipment. We are delighted to grow in such a difficult business climate, and we genuinely appreciate the support of all our clients who have made that growth possible.

### H-R Offers New Borehole Video Logging Service and Enhanced GPR Capabilities

To provide our clients with an improved perspective of subsurface conditions, H-R has broadened its already comprehensive range of geophysical services for environmental and engineering investigations by the acquisition of a borehole video logging system and a fully digital GPR system.

### Borehole Video Logging

Our new borehole video logging system is compact, portable, and provides high resolution color video images of boreholes *as small as 2 inches in diameter*. H-R's depth capability with this unit is 1000 feet. Fractures, voids, and subtle geologic detail can be readily seen for identification and interpretation. The borehole video system can be used alone or in conjunction with H-R's borehole geophysical logging services (caliper, temperature, natural gamma ray, electromagnetic induction, resistivity, single point resistance, SP, and full-wave sonic). *Call us for more info!*

### Enhanced GPR

H-R's new digital GPR system provides real time color images and permits advanced processing in the field. It is also equipped with a survey wheel that automatically triggers placement of distance markers at equal intervals on the GPR records, greatly increasing both the speed of the field work and

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the accuracy of survey locations.  
*Call us for details!*

## Take a Closer Look at H-R

You'll like what you see. As specialists in surface and borehole geophysics for environmental and engineering investigations, H-R has earned a national reputation for innovative applications of geophysics at challenging sites.

Routine geophysical services include:

- # Seismic Refraction & Reflection
- # Ground Penetrating Radar (GPR)
- # Precision Utility Location (PUL)
- # Borehole Geophysical Logging
- # Borehole Video Logging
- # Terrain Conductivity (EM)
- # Cross-hole Seismics
- # Magnetics
- # Resistivity
- # Gravity
- # VLF

Geotechnical Support Services include:

- # Blast/Vibration Monitoring
- # Subsurface Exploration Programs
- # Specialized Laboratory & Field Survey Services

And don't forget our unique specialty in dimension stone:

- # Quarry Evaluations
- # ASTM Physical Properties Tests
- # Full-size Panel & Anchor Tests
- # Failure Analysis

Dorothy Richter and Gene Simmons operate H-R out of Salem, NH with a terrific staff of twelve hard-working women and men. Dorothy Richter, President, has over 23

years professional experience in geology and geophysics and has been Principal of H-R since its inception in 1984. Dr. Gene Simmons, Vice President, is an internationally recognized expert in geophysics, was Professor of Geophysics at MIT for 24 years, and has been a Principal of H-R since 1989.

## WBE Certified

H-R is certified as a WBE or DBE by *ten* agencies in all of the New England States and New York.

## Our Mission

*To fulfill our clients needs in geoscience, using experienced professionals who enjoy their work and are totally committed to quality and professional development.*

## Message from the President

*What makes a successful company? Is there a formula for success? The business books and management consultants would have you believe so. But I'm not sure.*

*H-R has a reputation for quality that cannot be bought at any price. Yes, we invest in technology. Our new borehole video logging service and*

*enhanced GPR represent just a fraction of the advanced technology that we put to work for you and your clients.*

*But more importantly, we put the right tools in the **right hands**. H-R has attracted a staff of loyal, dedicated, experienced professionals who approach every project as though it's the most important one the company has ever had.*

*As the Principals of H-R, Gene and I have made quality, integrity, and professionalism of paramount importance at H-R. Some have said we're too demanding, too critical. But I think that our high standards and the double commitment to quality and advanced technology of the Principals and Staff are exactly what sets H-R apart from the competition and have permitted us to grow to be the largest geophysical specialty firm in the northeast.*

*Be a part of our continued growth by securing the quality geophysical services that you deserve and your clients need. Call us!*

*Cordially,*

*Dorothy Richter  
President*

## Tales from the '95 Project Files

Each year, our staff describes a few projects they found particularly interesting and/or satisfying for highlighting in this column. As usual, the list is far too long to use in its entirety, but . . .

**Jeff Reid**, our Operations Manager, somehow manages to assign himself to some of the more unusual and challenging field projects. He has especially enjoyed trying to detect voids using GPR in the piers of an active Navy shipyard in the southeastern US, coordinating a complex and very demanding laboratory testing program, using GPR and PUL to map utilities near active terminals at JFK Airport, and conducting seismic surveys at several construction sites.

**John Sturrock, Don Silvia, Michael Kolcak, and Bob Williams** really did not have to think too hard about their favorite project. They constitute H-R's Central Artery A-Team, working for the last year and a half under ever changing, ever challenging site conditions in downtown Boston. Working with a dynamic, very sophisticated team providing specialized survey, deformation monitoring, and utility location services has provided all four with once-in-a-lifetime learning opportunities that both they and we appreciate.

**Jonathon Puliafico**, who was recently certified as a P.G.(!), has been all over the place on project travel. He helped one client first

detect, then fully delineate conductive leachate plumes around a landfill in NY in an extensive two-phased EM survey, has made several trips to the Aberdeen Proving Grounds in Maryland to detect buried metal objects, and has been on the teams working in and around JFK Airport in the last year.

**Roger Yang and Sam Macintire** found working with a client on a multi-phased investigation of a DNAPL site in northern New England to be especially interesting. Roger and Sam first conducted a seismic refraction survey and determined that (1) bedrock was a lot deeper than previously thought and (2) configuration of the bedrock surface was a lot more complex than previously thought! In a later extensive survey at the same site, Roger and Sam successfully used GPR to determine the depth and configuration of a dense silty clay layer that seems to be controlling movement of the DNAPL. The client confirmed the results of the geophysical survey by drilling several borings, saving his client a lot of money by not drilling blindly and proving the important partnership of geophysics and geology in site subsurface investigations.

As one of her many projects, **Allyn Bowers** spearheaded a 'spirited' geophysical investigation of a cemetery here in New Hampshire. We had conducted a successful pilot survey for a small town last year, and this year, the town asked us to conduct a detailed survey of large sections of two historic town cemeteries to determine which spots

are 'occupied.' Allyn led a team that used GPR, supplemented in part by magnetics and EM, to provide the town a detailed occupancy census of the cemeteries.

**Chris Kujawa**, who joined us in July, has been spending most of the time in the lab diligently drilling rock cores and coping with a mountain of paperwork for a sensitive litigation support project. In his spare moments, he's also been developing H-R's home page that will be premiering on the World Wide Web shortly.

**Mike Swierz**, our CAD department, sends special thanks to all those clients who provide him with site plans on disk or by BBS. Their projects are Mike's favorites.

**Joan Gebo**, our office administrator, prefers the projects with small, tidy reports to assemble and bind and, of course, to wrap with our trademark pink flagging bow.

**Gene Simmons** fondly remembers hanging on a window washer's stage examining cracks in the stone cladding of a high-rise office building in western Canada last February. He claims it was cold.

**Dorothy Richter** enjoyed testifying as an expert witness for the NY Power Authority in a quarry claim. She worked with a pair of dynamite attorneys, learned a lot, and, in contrast to her previous experiences as an expert, got to attend the entire trial in September. It was amazing.

## H-R STAFF

|                    |                    |
|--------------------|--------------------|
| PRESIDENT          | Dorothy Richter    |
| VICE PRESIDENT     | Gene Simmons       |
| OPERATIONS MANAGER | Jeffrey Reid       |
| ADMINISTRATIVE     | Joan Gebo          |
| TECHNICAL STAFF    | Jonathon Puliafico |
|                    | Roger Cunhui Yang  |
|                    | John Sturrock      |
|                    | Allyn Bowers       |
|                    | Michael Kolcak     |
|                    | Donald Silvia      |
|                    | Robert Williams    |
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|                    | Christopher Kujawa |
| DRAFTING/CAD       | Michael Swierz     |

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