### HAGER-RICHTER GEOSCIENCE, INC.

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T (732) 661-0555 / F (732) 661-0123 846 Main Street Fords, New Jersey 08863 Fall, 2006 / Winter 2007

## H-R IS GROWING & MOVED ITS **NEW YORK/NEW JERSEY** REGIONAL OFFICE TO FORDS, NEW JERSEY!

H-R is growing and moved its New York/New Jersey Regional Office to headquartered in Salem, New Hampshire. larger digs in Fords, New Jersey in September, 2006. Office moves are a major effort for any firm, large or small. It wasn't easy for H-R, but somehow we got it done. And we're glad. And we're happy with the new space.

Fords is a section of Woodbridge, New Jersey. The new office is conveniently located right on Main Street and at the crossroads of New Jersey - the intersection of the New Jersey Turnpike (I-95) and the Garden State Parkway. In fact, the property literally backs up to the New Jersey Turnpike and is close to both Exits 10 and 11. It is also within spitting distance of I-287, US Routes 1 & 9, the Outerbridge Crossing and a host of other highways. The new office is about midway between Boston and Washington, DC, where H-R has several substantial geophysical projects.

H-R's larger New York/New Jersey Regional Office in Fords, New Jersey represents a major investment in the future of H-R in the metropolitan northeast corridor. After five years at our first branch office location in Orange, New Jersey, we were ready - no, we were anxious for better offices in a better location. We now have room to grow and access to go. H-R NY/NJ is in Fords to

stay, and the firm remains happily





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NY/NJ Regional Office to

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#### H-R's New York/New Jersey Regional Office

A better office + a better location = two better reasons to call us!

### Message from the President -Musings on the Long & Winding Road

A small company's path does not always Yes, H-R is traveling a long and follow a predictable trajectory. H-R has safely found a way through its share of twists and turns since its humble beginning in my home in 1984. That said, I am acutely aware that I did not journey alone along the long and winding road of H-R's history. In this day and age, where job-hopping is considered the norm. H-R has been blessed to have several invaluable staff who came to stay for a while.

Please help me celebrate, celebrate, and congratulate three of H-R's exceptional staff who have reached milestones that are increasingly rare in these times:



Lyn Mercer, H-R's Office Administrator Extraordinaire, who reached ten (10!) years of service in July, 2006.



Bill Desmarais, H-R's CAD Manager of Magic, who reached ten (10!) years of service in August, 2006.



Jeffrey Reid, P.G., H-R's Senior Geophysical Gypsy, who will hit twenty (20!) years of service in January, 2007 (counting a 6-month

'sabbatical.')

Lyn, Bill, and Jeff represent 20% of H-R's current staff, not counting Gene Simmons and myself.

What can I possibly say about their contributions? Jeff has pretty much seen it all in 20 years at a 22+-year old firm, and Lyn and Bill have certainly ensured that the last decade is in the better half of H-R's history.

winding road, but I am very glad and immensely proud to make the journey in such fine company.

Why not enjoy H-R's company on your geophysical journeys? Call us!

Cordially, Dorothy Richter

### How to Describe H-R's 2006?

Crazybusy. How to describe H-R's 2007? We suspect more of the same.

How do we do it? We have an absolutely fabulous staff, that's how. H-R's staff truly works in ever-shifting teams and genuinely enjoys working together.

Any interesting projects? Aren't they all? Lots of large projects, so many small projects, and everthing in between. Surface geophysics, borehole geophysics. Engineering geophysics, environmental geophysics, archeogeophysics, NDT. Shear wave seismic studies for seismic site class determination from northern Maine to southern Florida.

There were miles of seismic refraction and several MASW surveys in Alabama for TTL, Inc., and miles of seismic refraction and seismic reflection survey for a DC WASA CSO tunnel in Washington, DC. for CDM/Hatch Mott MacDonald JV. There were crosshole seismic tomography surveys to determine the precise location of an historic 15' diameter tunnel under a port facility for a DMJM Harris project. Jeff Reid and José Carlos Cambero Calzada teamed seamlessly on all those efforts. The crosshole seismic tomography project

involved many stakeholders, many meetings, and Gene Simmons stayed on top of it all.

There were several weeks of intense borehole geophysical logging of fractured bedrock in both vertical and inclined boreholes at a former defense facility along our nation's coast, a memorable experience for Rob Garfield and Suzi LeFrançois. What Rob and Suzi both enjoyed the most was the rich positive scientific collaboration with the prime consultant, The Johnson Company, and government representatives from the US Army Corps of Engineers and USGS.

Steve Grant spent a lot of time at the Seabrook Nuclear Power Station in New Hampshire for multiple phases of detailed surface geophysical surveys. Mohammed Hayat and Mike Ryan worked together on several sensitive vibration monitoring projects in Boston and New York City, and Mohammed made repeated trips to a site where the client excavated drums at the locations of anomalies he had detected. A lover of archeology, Alexis Martinez was more than ready when a routine utility/UST location project at a paved urban NJ site evolved into an investigation of a possible historic African burying ground.

The 'new guys' (see following story) plunged right into project work. Bryan Carnahan assisted on large seismic projects in New Jersey, New York, Alabama, and Washington, DC. Eric Rickert assumed major responsibility for geophysical surveys at a landfill, a golf course, and a sensitive investigation of a potential development site. Mikko Aarnio helped with that large seismic refraction/seismic reflection project in Washington, and Brooks MacFarquhar helped log an almost 900-foot deep borehole on Staten Island.

Throughout it all, Lyn Mercer, office administrator, and our CAD guys, Bill Desmarais, and Brian Robison, kept things sane in the two offices and helped get those reports out the door. Brian was particularly helpful with the countless little details for our major NY/NJ office move.

A new year is upon us. H-R has a measurable backlog of surface and borehole geophysical project work to look forward to doing. But, you know what? We are really looking forward to working with you! Call us!

#### Fall, 2006 / Winter, 2007

# Presenting The New Guys

Please greet the following staff who joined H-R in 2006:

Bryan Carnahan, Geophysicist. Bryan has bachelor's degrees in Geography from Colgate University and in Geology from the University of Vermont. He also earned a M.Ed. in science education at UVM and taught high school science for a year before joining H-R. Bryan quickly joined the nomadic consulting geophysicist life, spending much time in the field, including multi-week stints in Alabama in the summer, in upstate New York in the fall, and in Washington, DC in the winter. Brave guy.

Eric Rickert, Geophysicist. Eric has a BS in Geophysics from Texas A&M and an MS in Hydrogeology from the University of Maine. His MS thesis included some sophisticated borehole geophysical logging under the eye of Fred Paillet, one of the foremost borehole geophysical logging experts in the US. Eric worked for six years as an engineering geologist for a premier geotechnical engineering firm between his BS and MS studies. Since joining H-R, Eric has been exposed to the works and has quickly blended into the geophysical mix.

Mikko Aarnio, Geophysical Intern. Mikko is a student in Applied Geophysics at the Technical University of Helsinki in Espoo, Finland, and has almost completed his MS there. He has done geophysical field work with the Geological Survey of Finland, and brings a cool-eyed perspective to applied geophysics here in the US. Mikko arrived in the US just in time to help move our NJ office and will be training with H-R for 18 months.

Brooks MacFarquhar, Geophysicist.
Brooks has a BS in Geophysical Science from the University of Chicago. Brooks lived outside the US for much of his youth. He taught high school physics for a year in an international school in Africa and used his fluency in colloquial Turkish as a cultural interpretor for a Robert Ballard expedition in Turkey. Brooks' international

experience has served him well in adapting to the exotic life of a Jersey geophysicist.

It's always a thrill to watch new staff dive enthusiastically into our geophysical project work. H-R's 'new guys' and the 'don't call them old guys' are raring to go where geophysical adventures await. *Call us!* 

#### H-R's Services

#### Surface Geophysics –

- Seismic Refraction
- Seismic Reflection
- Multi-channel Analysis of Surface Waves (MASW)
- ReMi (Refraction Microtremors)
- Ground Penetrating Radar (GPR)
- Electromagnetic Induction (EM31, EM34, EM38, EM61)
- Earth Resistivity Imaging
- Magnetics
- VLF
- Blast/Vibration Monitoring
- Subsurface Utility Detection

#### Borehole Geophysics –

- Crosshole Seismic Testing
- Crosshole Seismic Tomography
- Borehole Geophysical Logging
  - Acoustic Televiewer (ATV)
  - Optical Televiewer (OTV)
  - Heat-Pulse Flow Meter (HPFM)
  - 3-Arm Caliper
  - Fluid Temperature
  - Fluid Resistivity
  - Natural Gamma Ray
  - Spontaneous potential (SP)
  - Normal Resistivity
  - Single Point Resistance (SPR)
  - Electromagnetic Induction (EM)
- Borehole Video Logging
- Video Logging of Deep Drilled Shafts
- Borehole Radar

#### Dimension Stone

- ASTM Testing
- Failure Analysis
- Quarry Evaluations

#### Litigation Support Services —

- Document Review & Consulting
- Expert Testimony.

**Call us** for the things we do well!

## Why We Do What We Do

The reason why we do what we do is because every person at H-R is acutely aware that our surface and borehole geophysical services contribute to protecting the health and safety of the public and to preserving our cultural and natural resources.

That's probably similar to why you do what you do, too. *Call us!* 

#### **Our Mission**

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

# WBE/DBE Certifications

- New Hampshire DOT
- Vermont AOT
- Maine DOT
- SOMWBA (Massachusetts)
- Mass Highway, MassPort, MBTA
- Connecticut DOT
- Rhode Island Dept. of Development
- Empire State Development (NY)
- New York State DOT
- Metropolitan Trans. Authority (NY)
- The Port Authority of NY & NJ
- New Jersey Dept. of Commerce
- New Jersey DOT
- New Jersey Transit Authority
- · Ohio DOT
- Indiana DOT
- Illinois DOT

H-R STAFF			
PRESIDENT	Dorothy Richter, P.G.		
VICE PRESIDENT	Gene Simmons, Ph.D., P.G.		
<b>ADMINISTRATION</b>	Lyn Mercer		
TECHNICAL STAFF	Steven Grant, P.G.	NH	
	Jeffrey Reid, P.G.	NH	
	Mohammed Hayat	NH	
	Suzanne LeFrançois	NH	
	Michael Ryan	NH	
	Bryan Carnahan	NH	
	Eric Rickert	NH	
	Alexis Martinez	NJ	
	Robert Garfield	NJ	
	José Carlos Cambero Calzada	NJ	
	Mikko Aarnio	NJ	
	Brooks MacFarquhar	NJ	
DRAFTING/CAD	William Desmarais	NH	
	Brian Robison	NJ	

Visit our Web Site — www.hager-richter.com

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